

#3

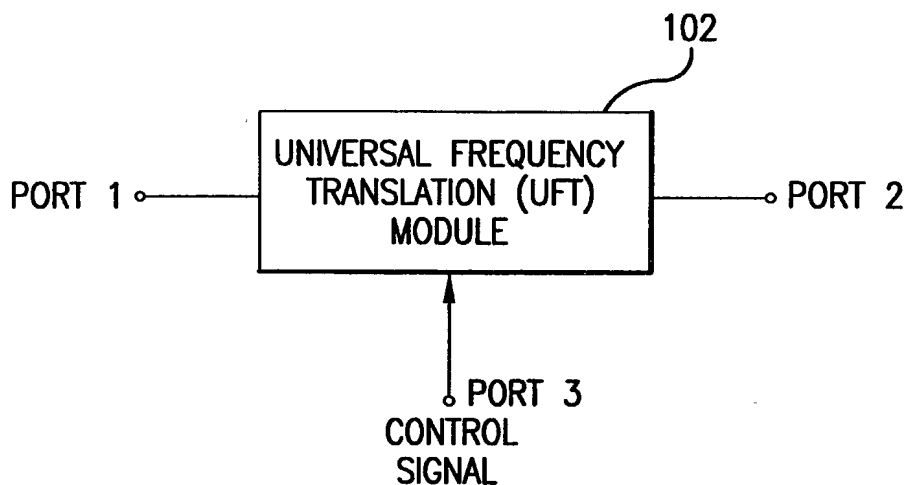


FIG. 1A

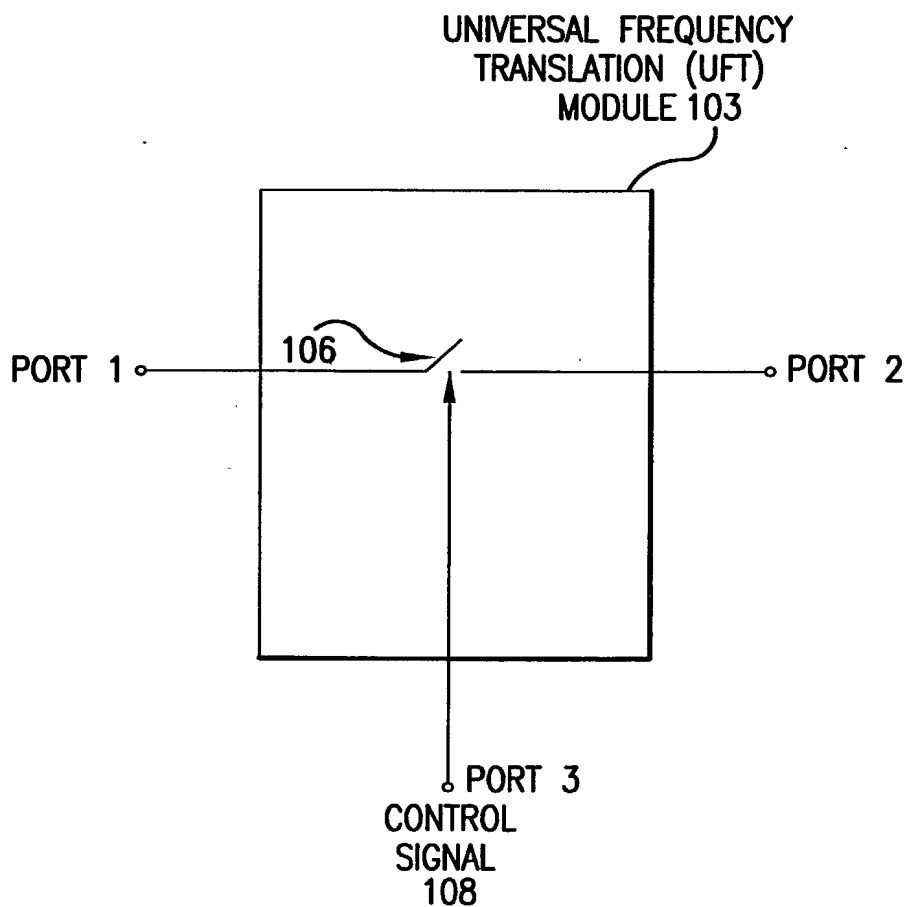


FIG. 1B

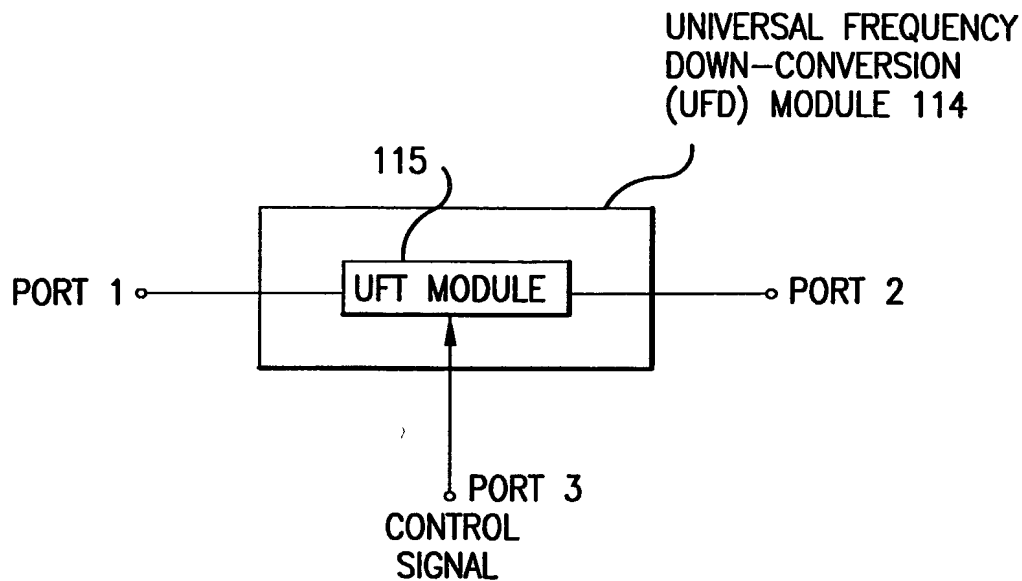


FIG. 1C

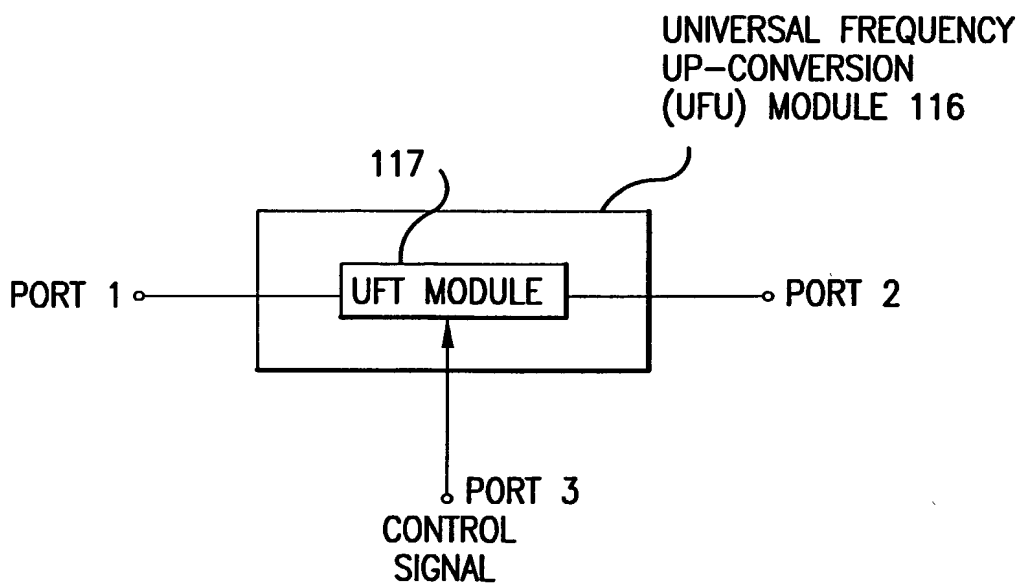


FIG. 1D

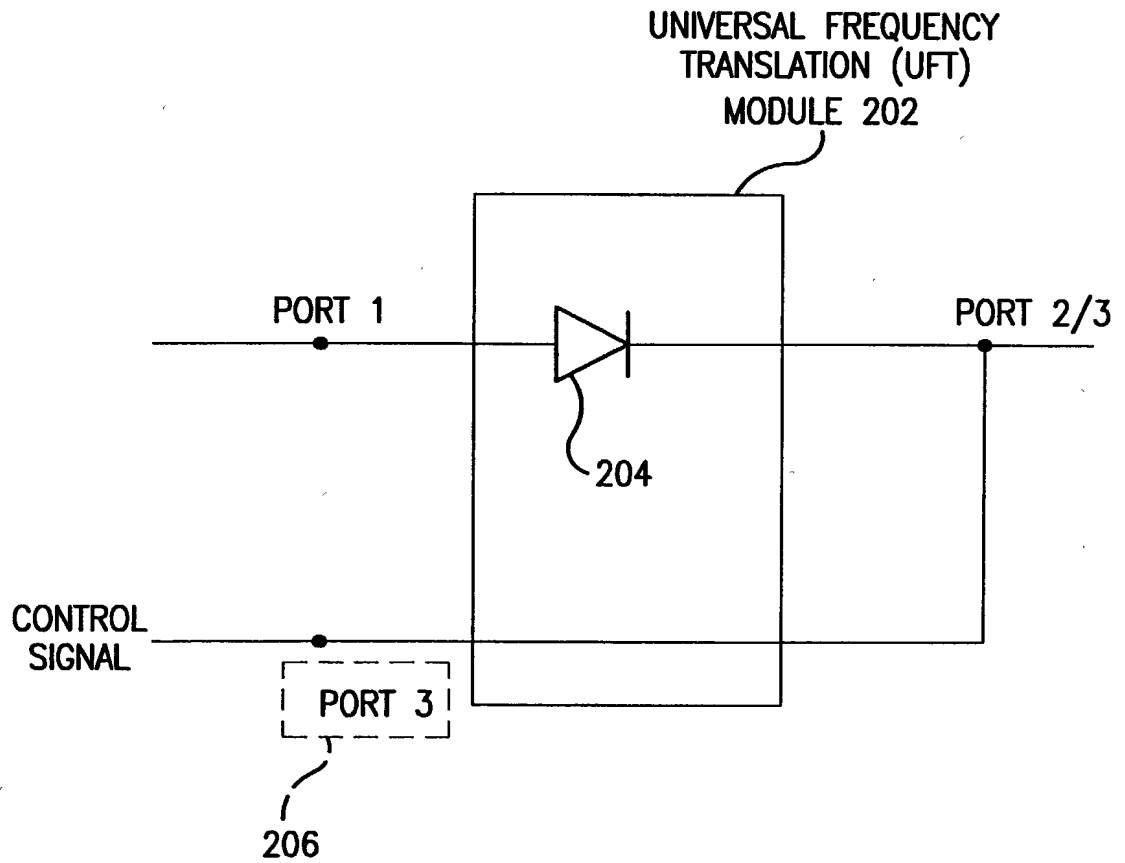


FIG. 2

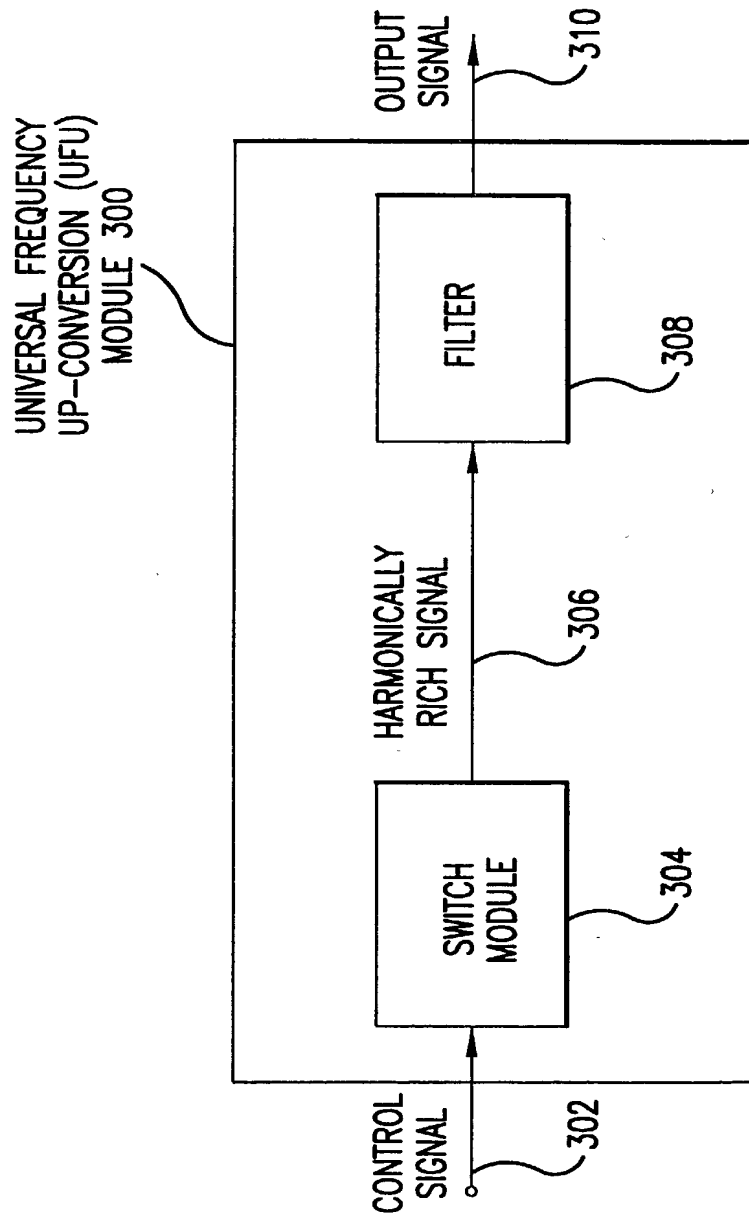


FIG. 3

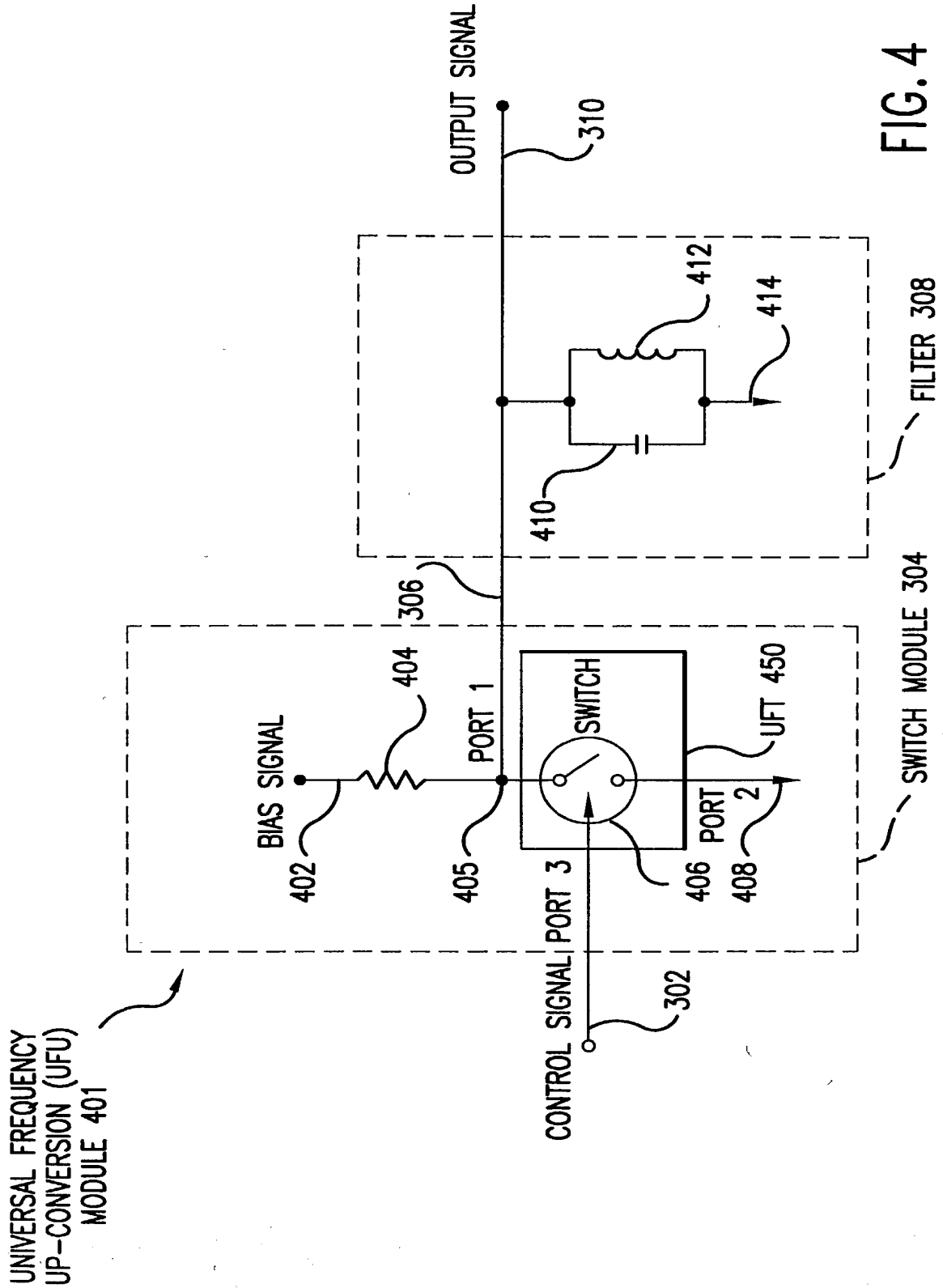


FIG. 4

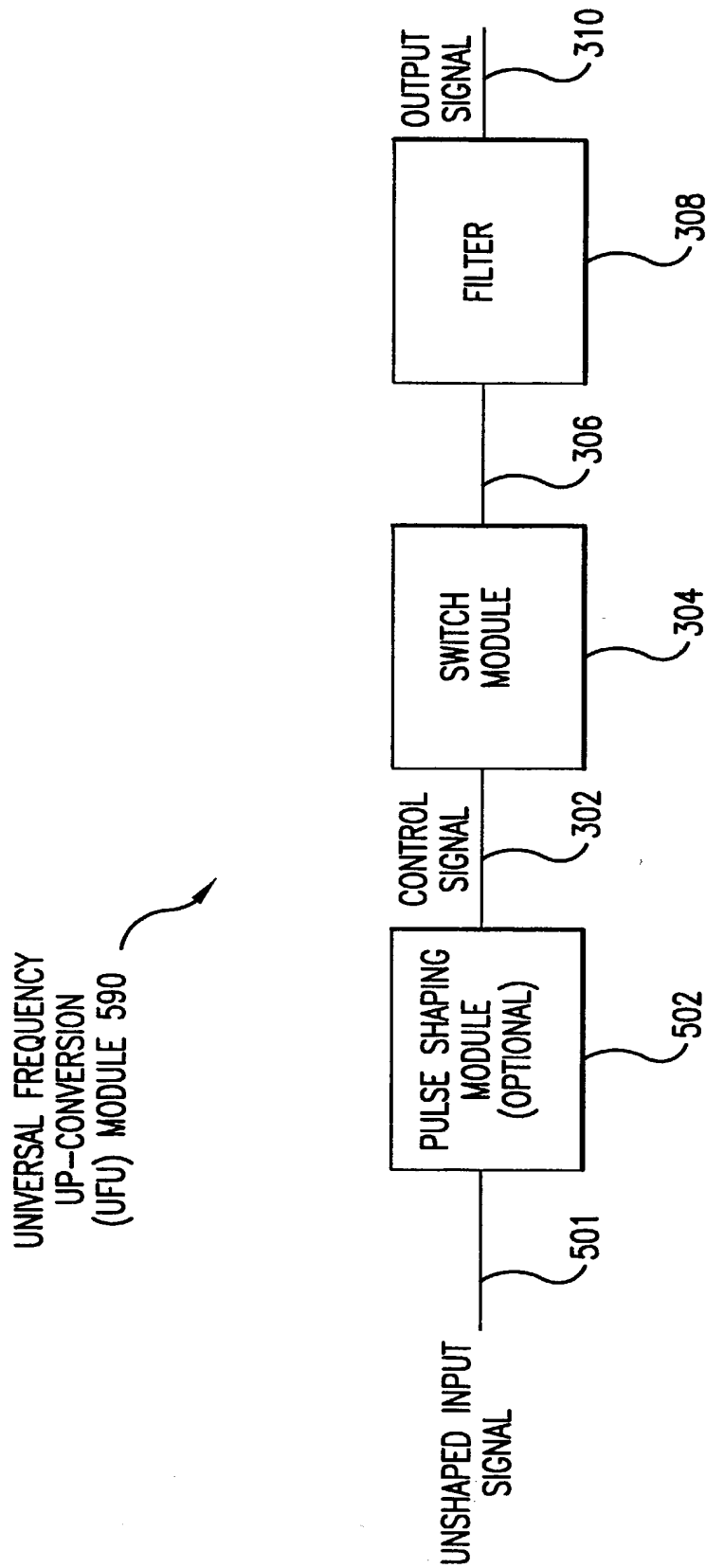
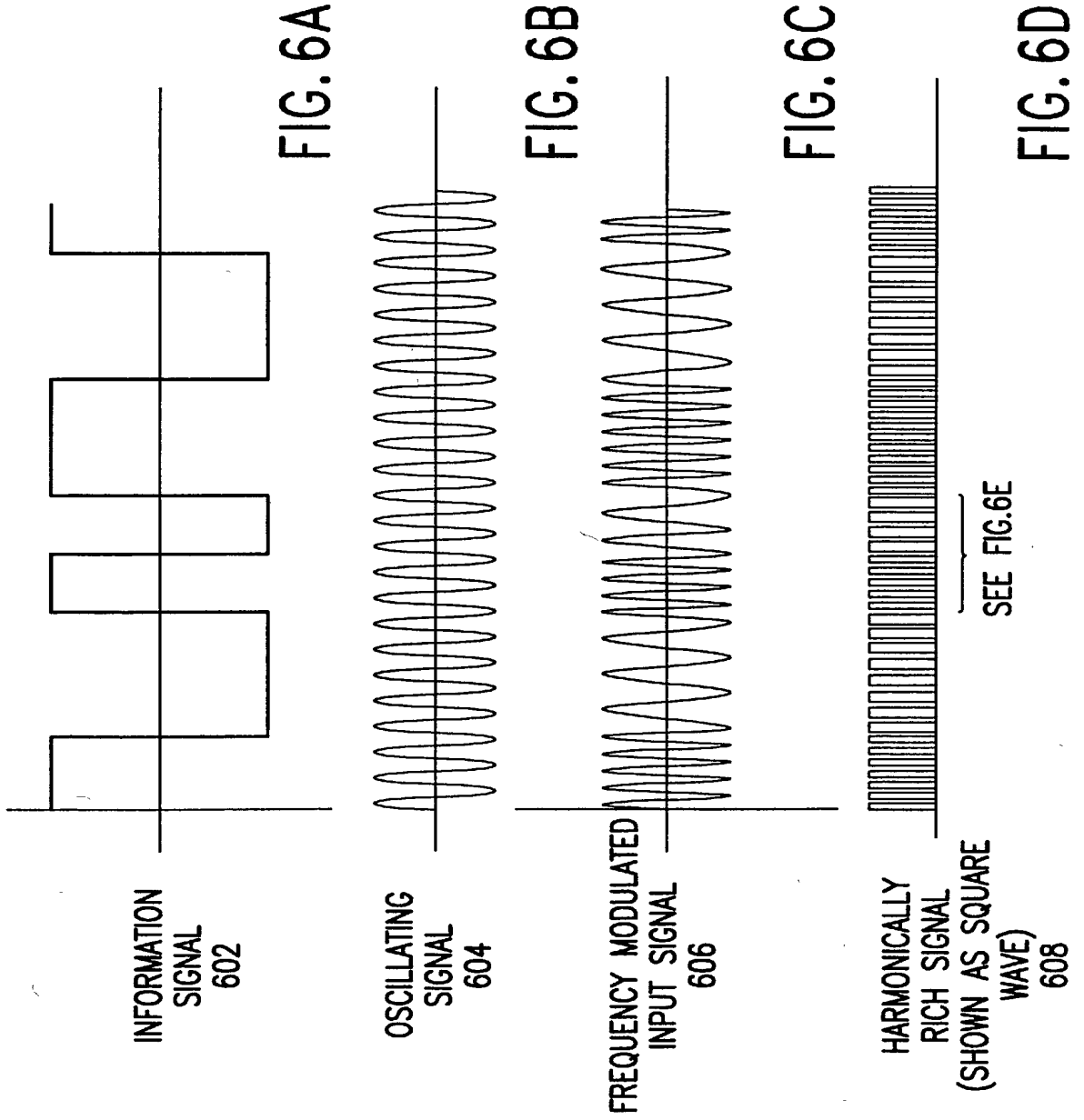


FIG. 5



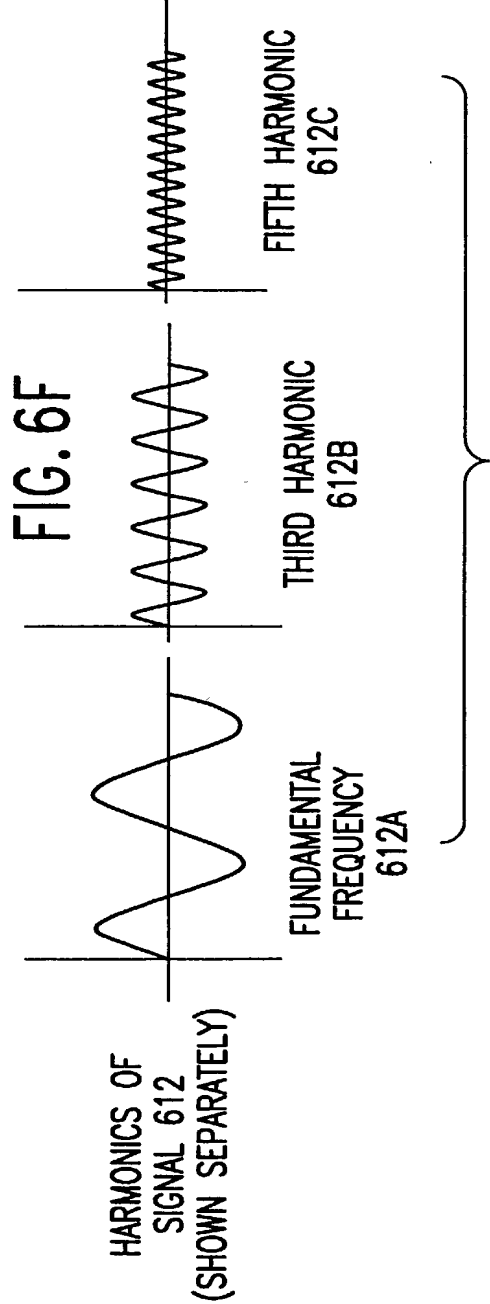
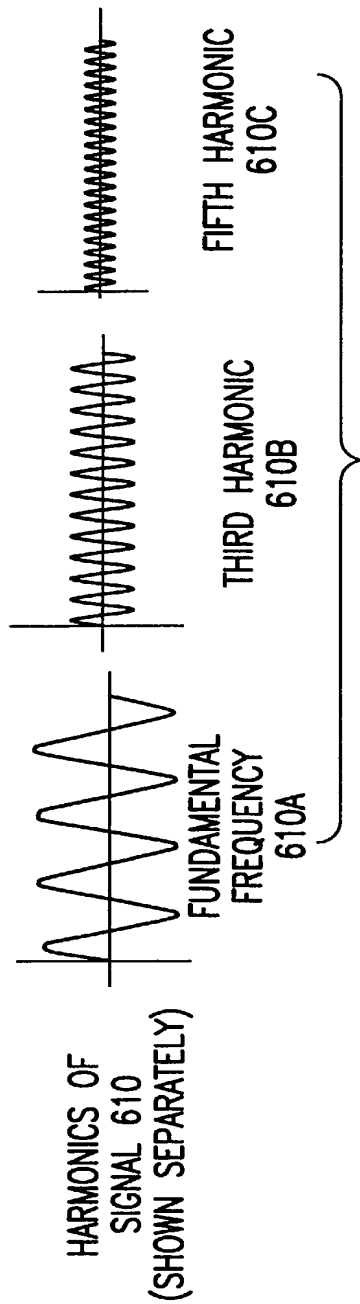
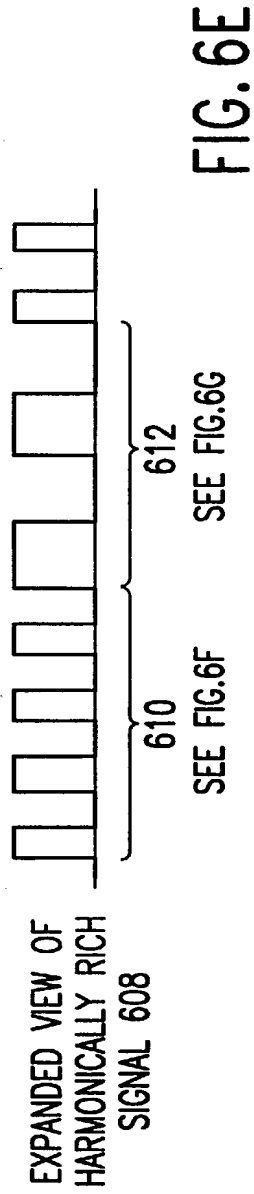
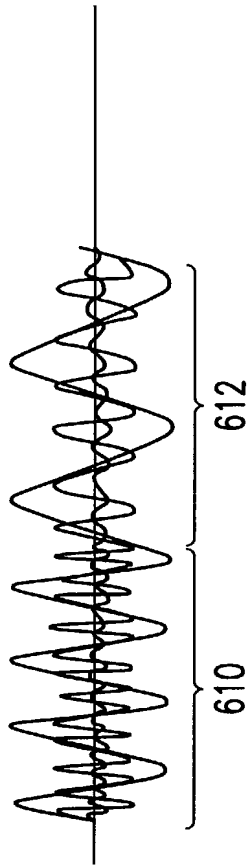


FIG. 6F

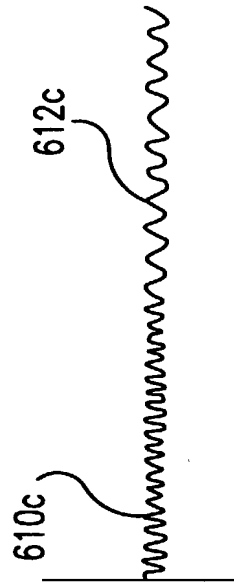
FIG. 6G





HARMONICS OF  
 SIGNALS 610 AND  
 612  
 (SHOWN SIMULTANEOUSLY  
 BUT NOT SUMMED)

FIG. 6H



FILTERED  
 OUTPUT  
 SIGNAL  
 614

FIG. 6I

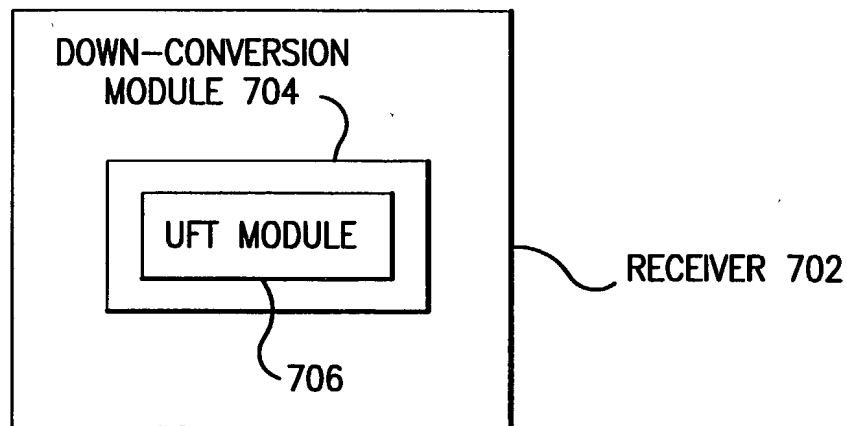


FIG. 7

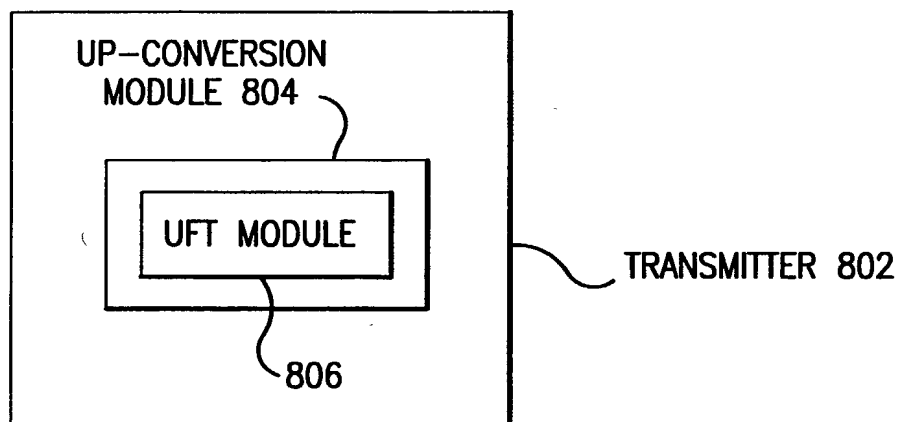


FIG. 8

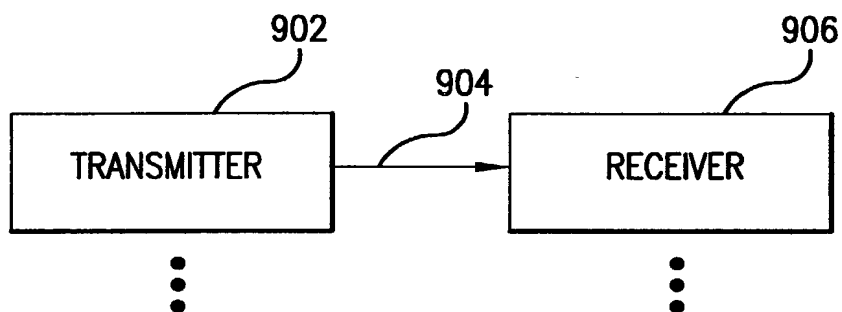


FIG. 9

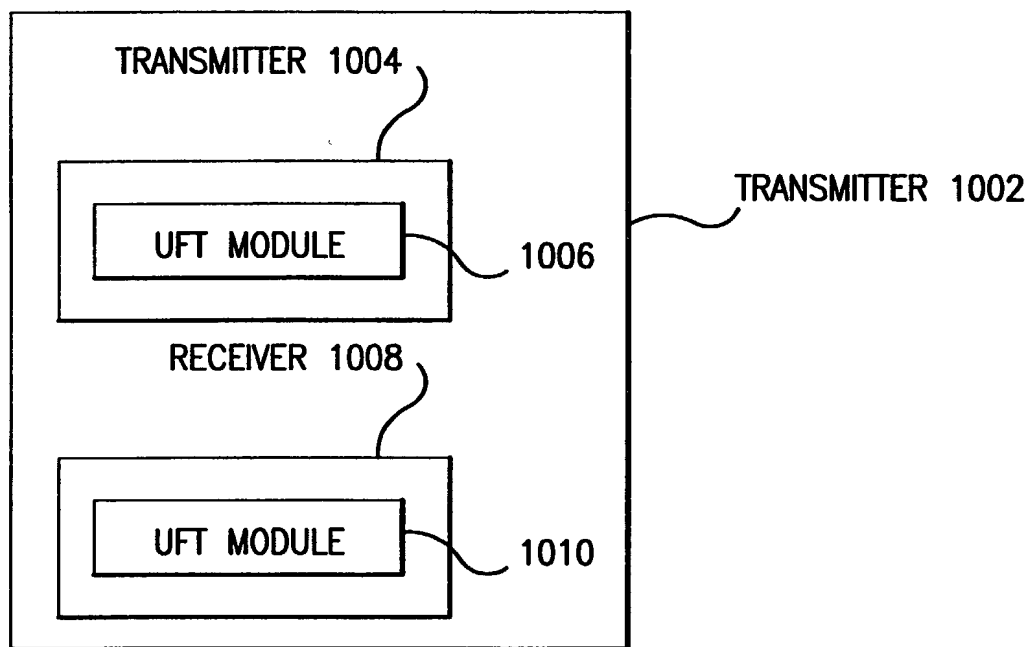
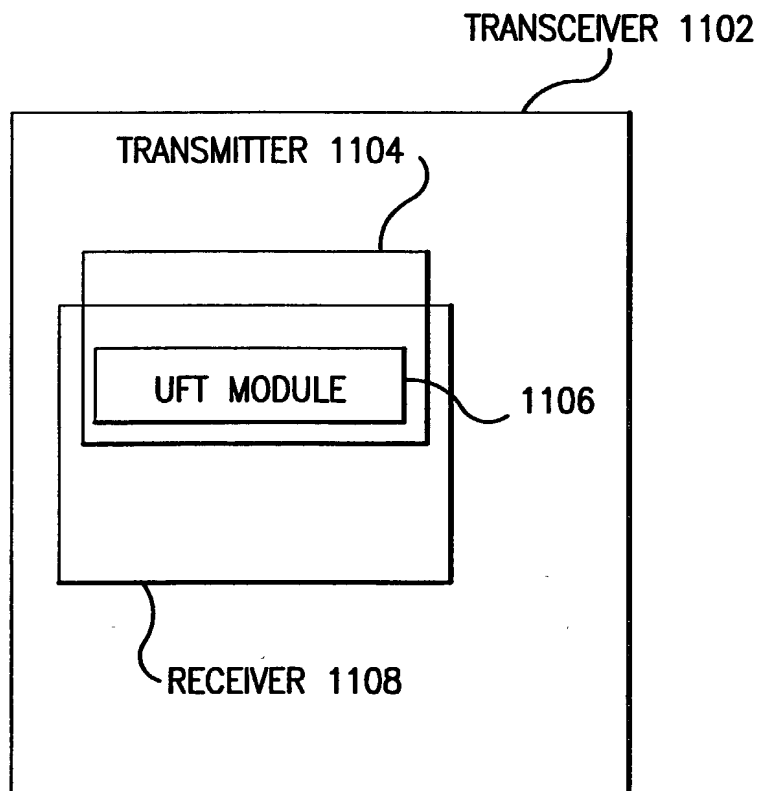


FIG. 10



**FIG. 11**

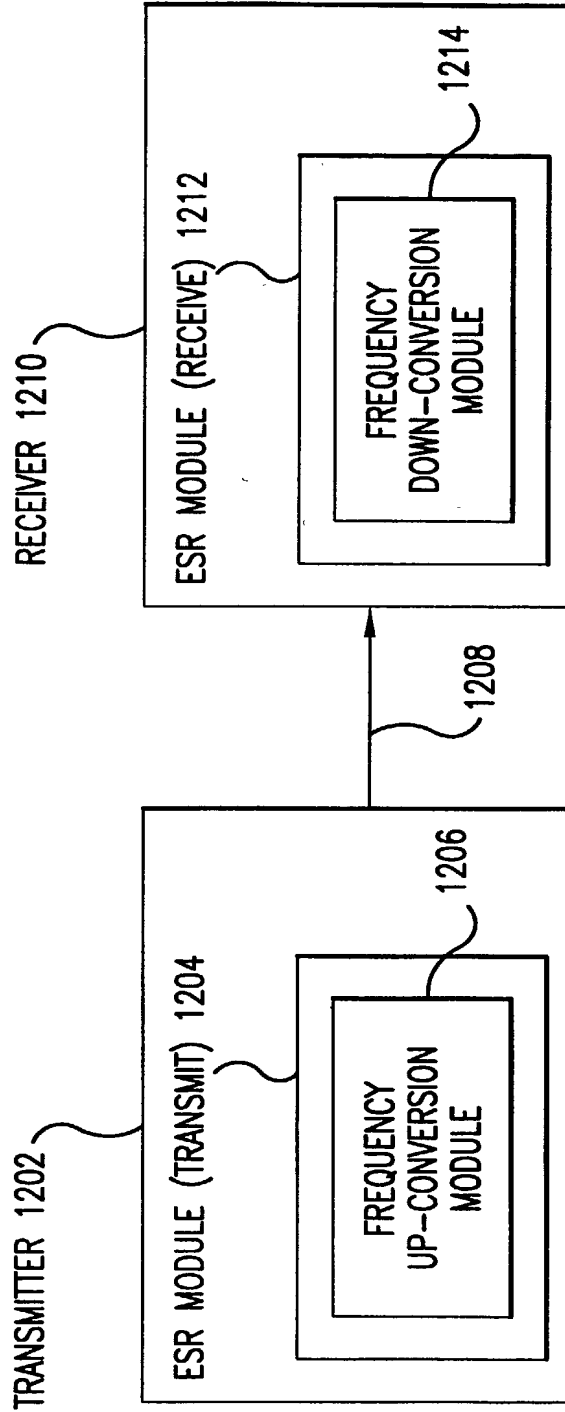


FIG. 12

UNIFIED DOWN-CONVERTING  
 AND FILTERING (UDF) MODULE 1302

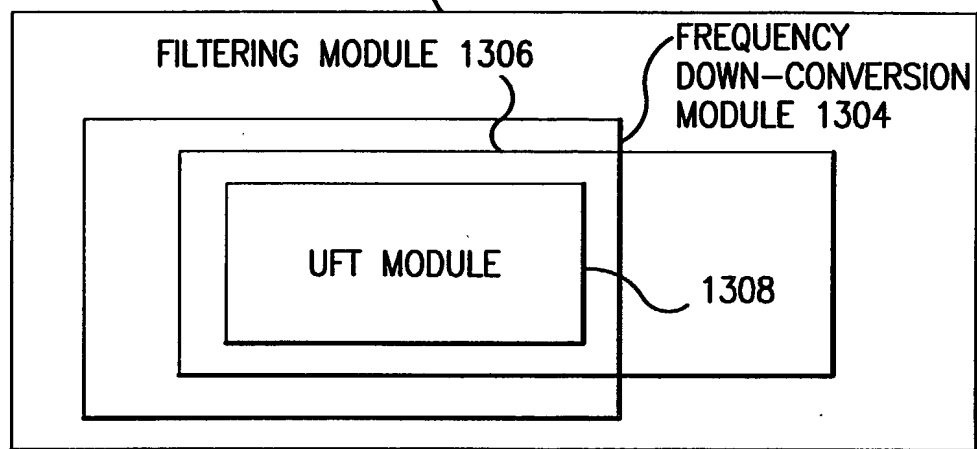


FIG. 13

RECEIVER 1402

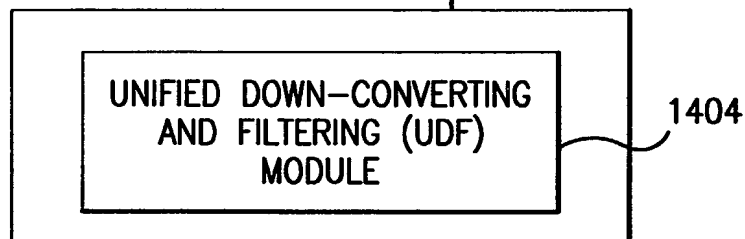


FIG. 14

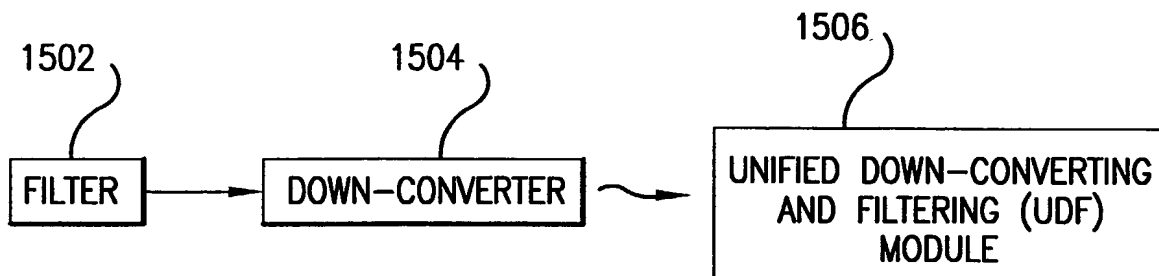


FIG. 15A

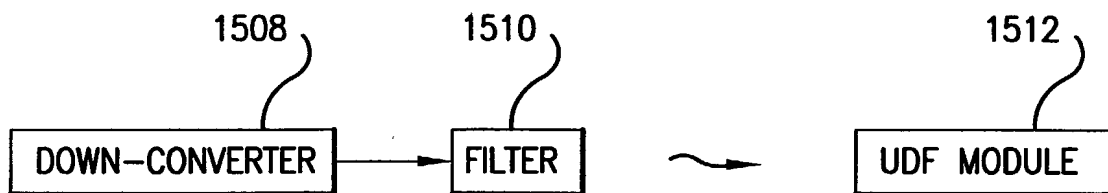


FIG. 15B

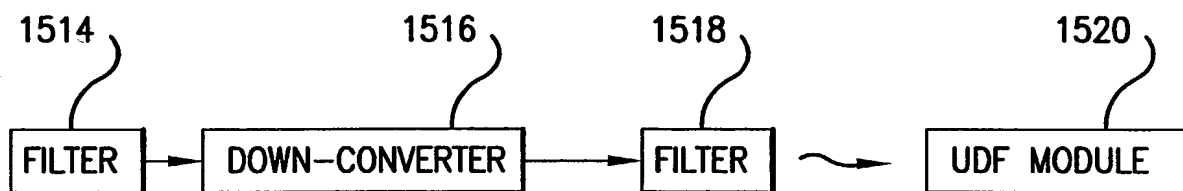


FIG. 15C

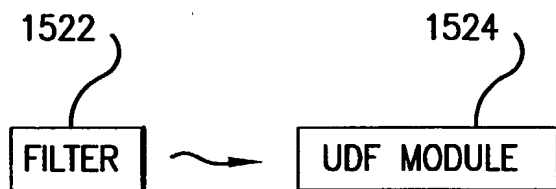


FIG. 15D



FIG. 15E

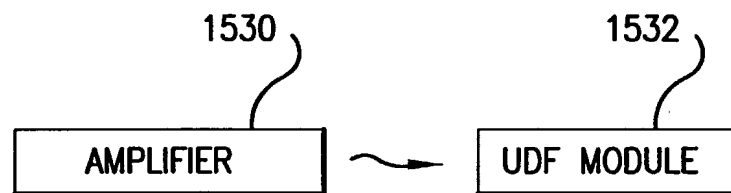


FIG. 15F



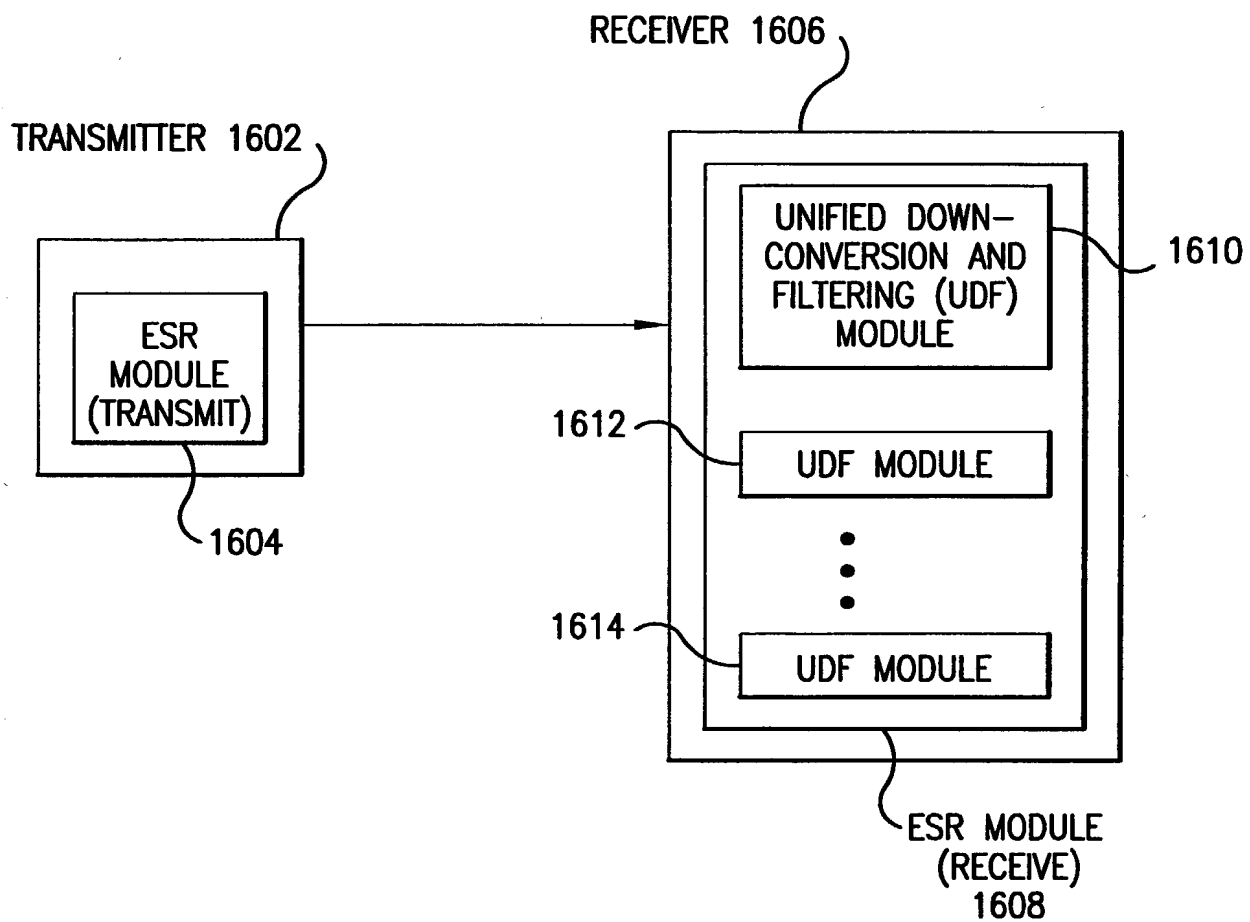


FIG. 16

UNIFIED DOWNCONVERTING AND  
 FILTERING (UDF) MODULE 1702

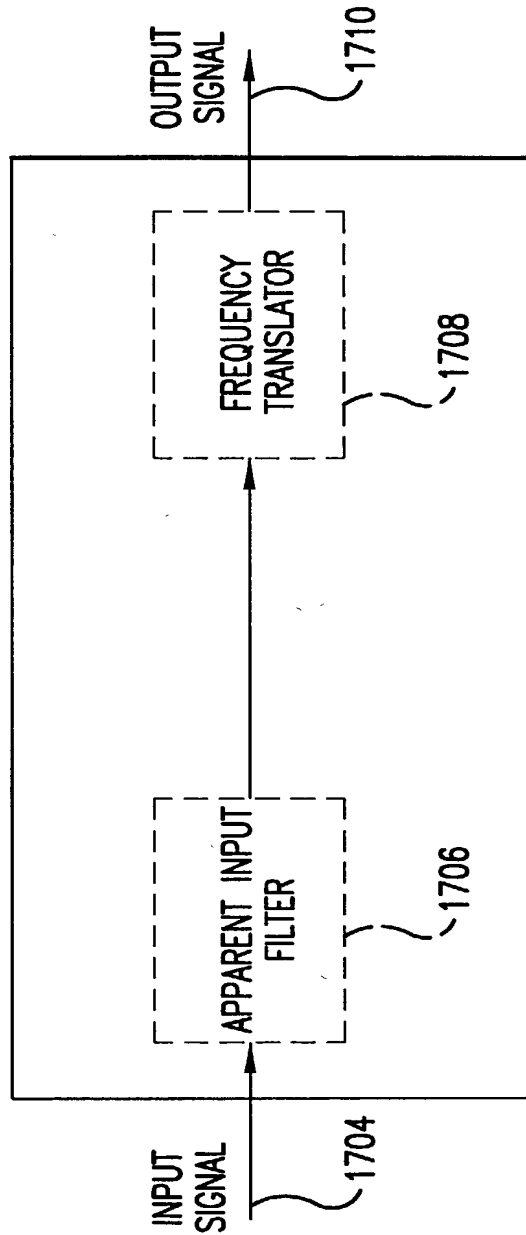


FIG. 17

TIME NODE	t-1 (RISING EDGE OF $\phi_1$ )	t-1 (RISING EDGE OF $\phi_2$ )	t (RISING EDGE OF $\phi_1$ )	t (RISING EDGE OF $\phi_2$ )	t+1 (RISING EDGE OF $\phi_1$ )
1902	$V_{t-1}$ 1804	$V_{t-1}$ 1808	$V_t$ 1816	$V_t$ 1826	$V_{t+1}$ 1838
1904	—	$V_{t-1}$ 1810	$V_{t-1}$ 1818	$V_t$ 1828	$V_t$ 1840
1906	$V_{t-1}$ 1806	$V_{t-1}$ 1812	$V_t$ 1820	$V_t$ 1830	$V_{t+1}$ 1842
1908	—	$V_{t-1}$ 1814	$V_{t-1}$ 1822	$V_t$ 1832	$V_t$ 1844
1910	— 1807	—	$V_{t-1}$ 1824	$V_{t-1}$ 1834	$V_t$ 1846
1912	—	— 1815	—	$V_{t-1}$ 1836	$V_{t-1}$ 1848
1918	—	—	—	—	$V_{t-1}$ 1850 $0.1*V_{t-1}$ $0.8*V_{t-1}$

FIG. 18

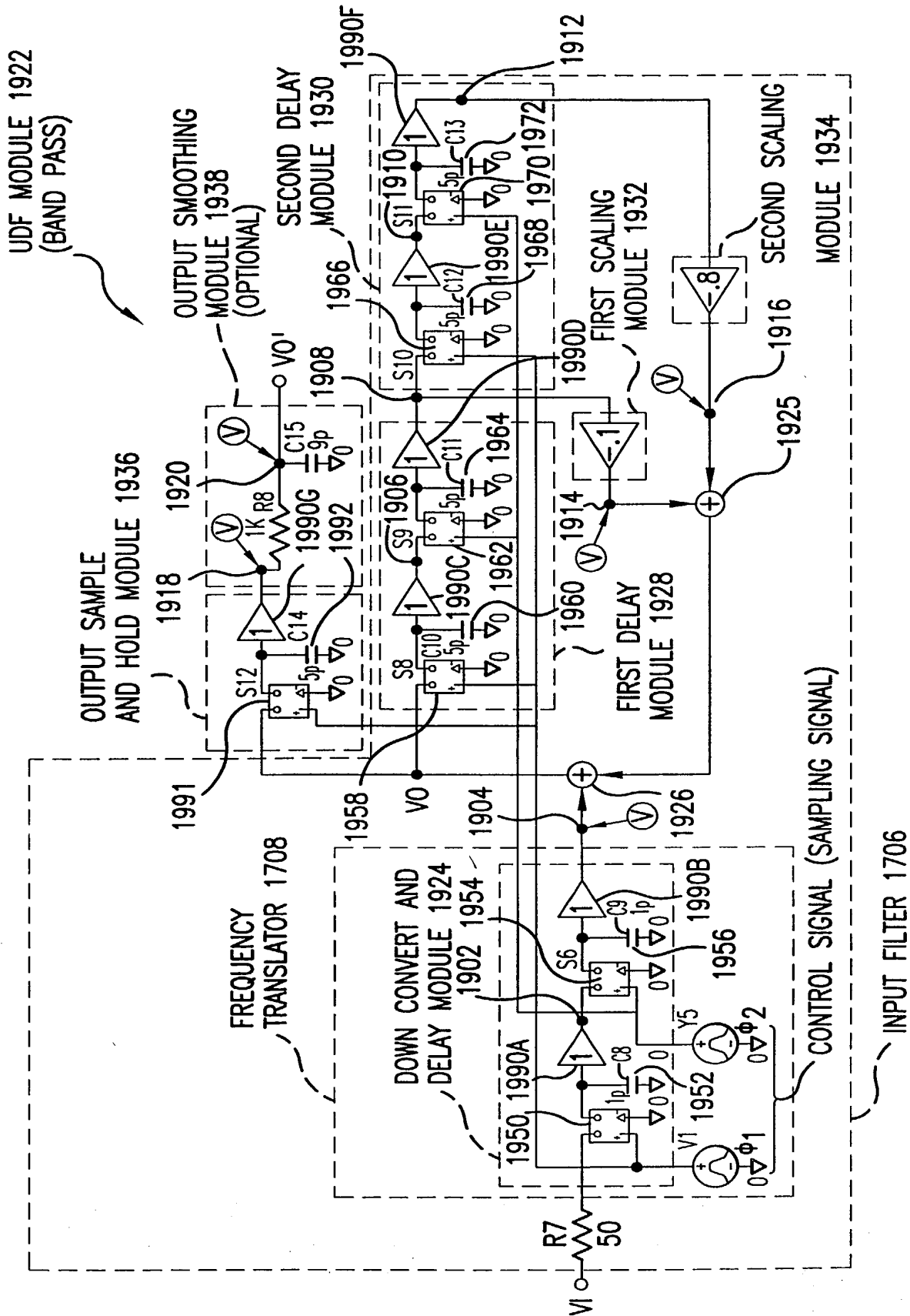


FIG. 19

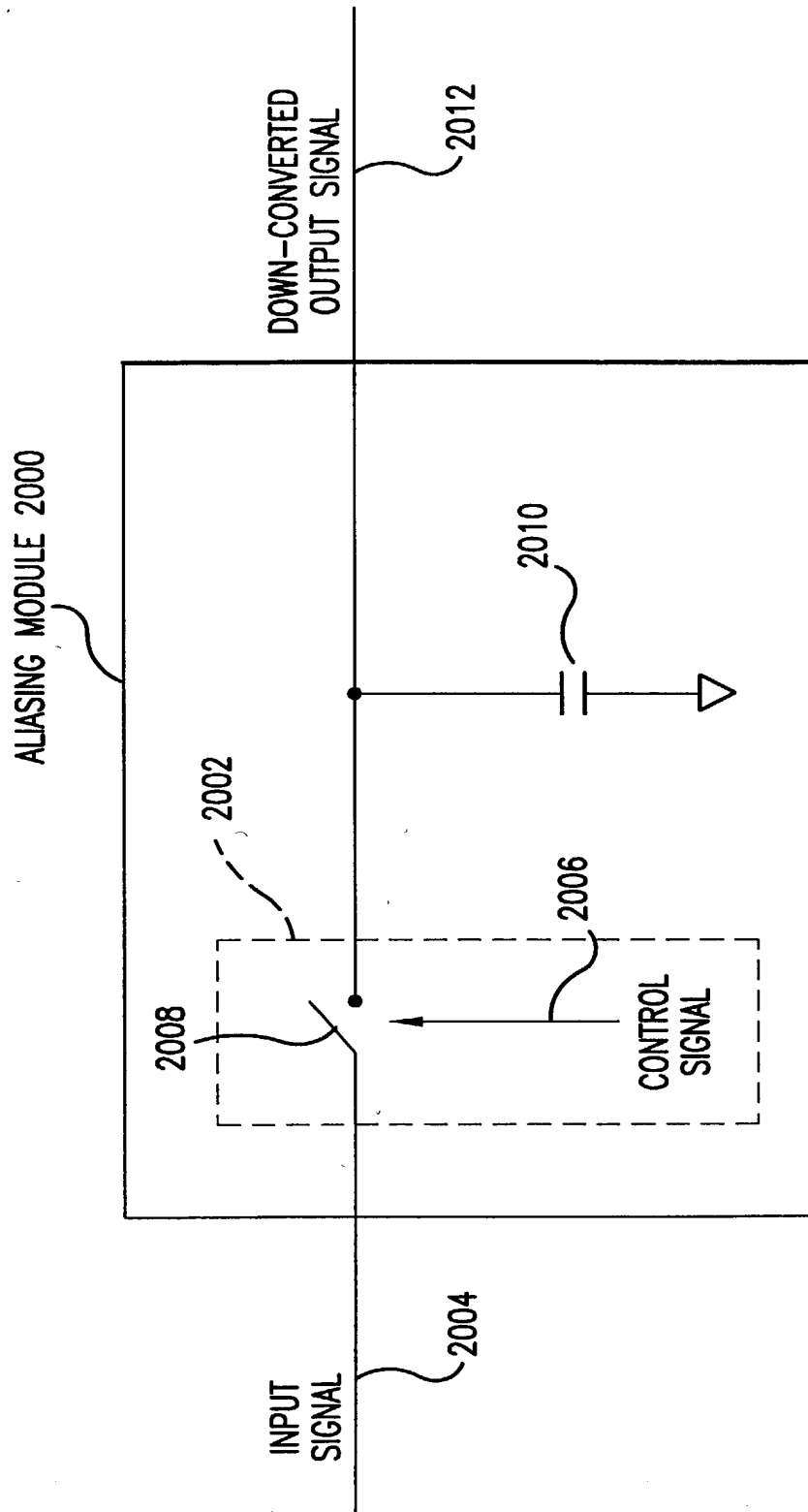


FIG. 20A

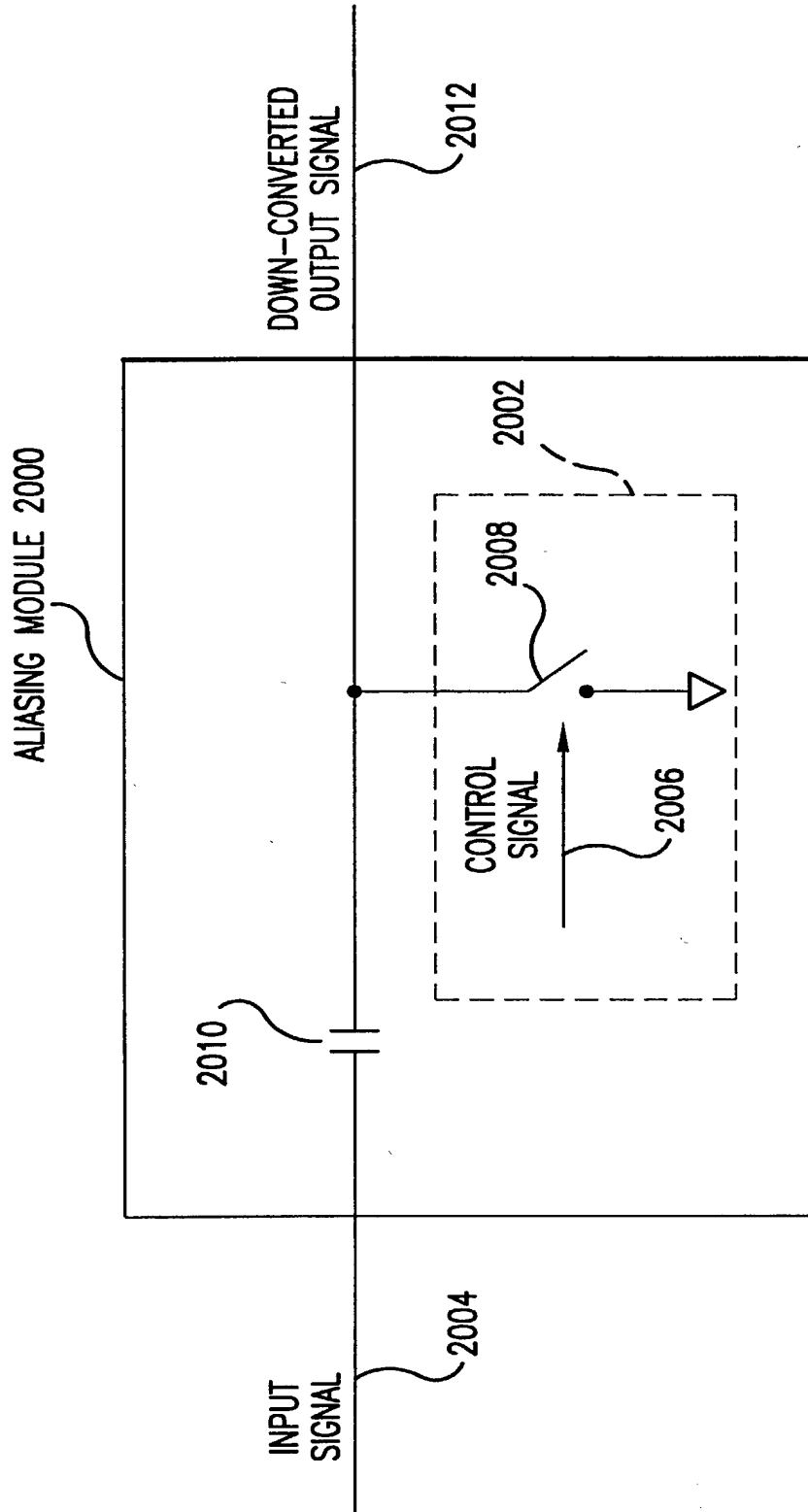


FIG. 20A-1

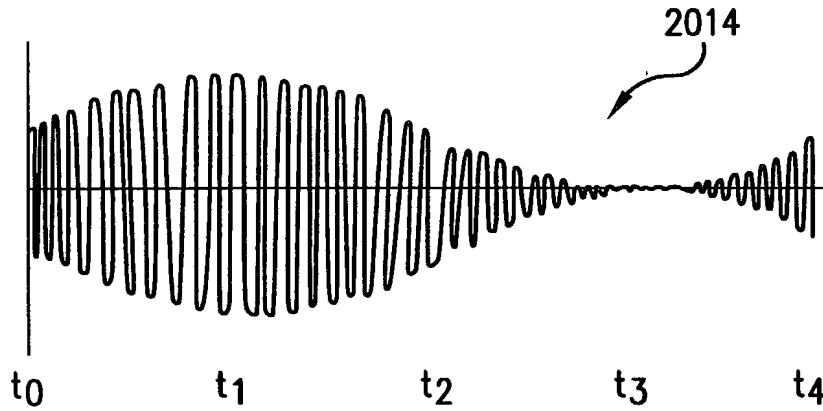


FIG. 20B

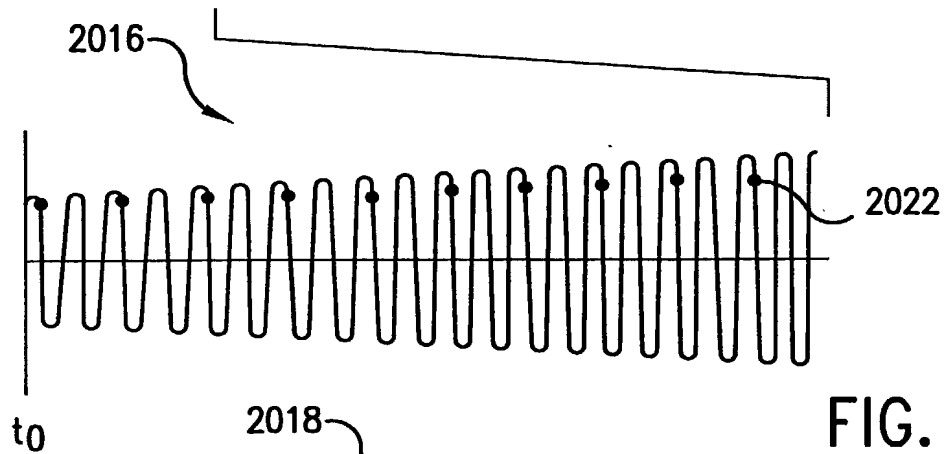


FIG. 20C



FIG. 20D

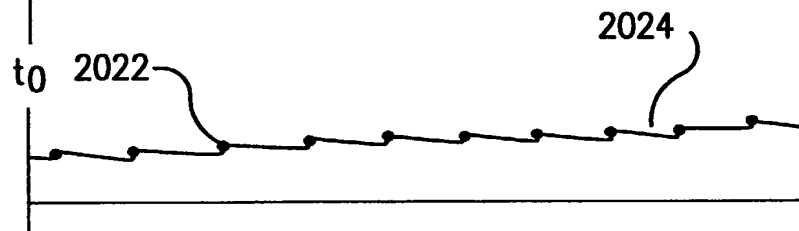


FIG. 20E

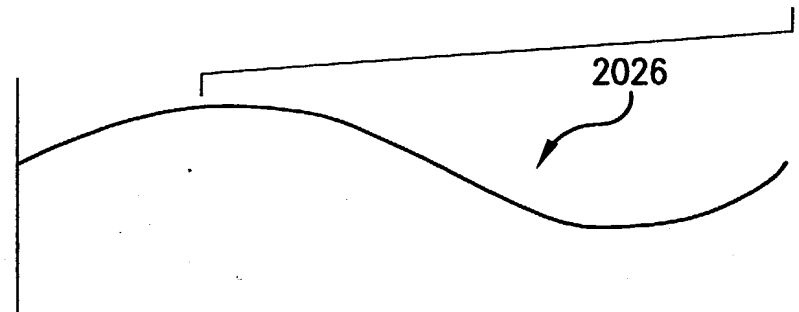


FIG. 20F

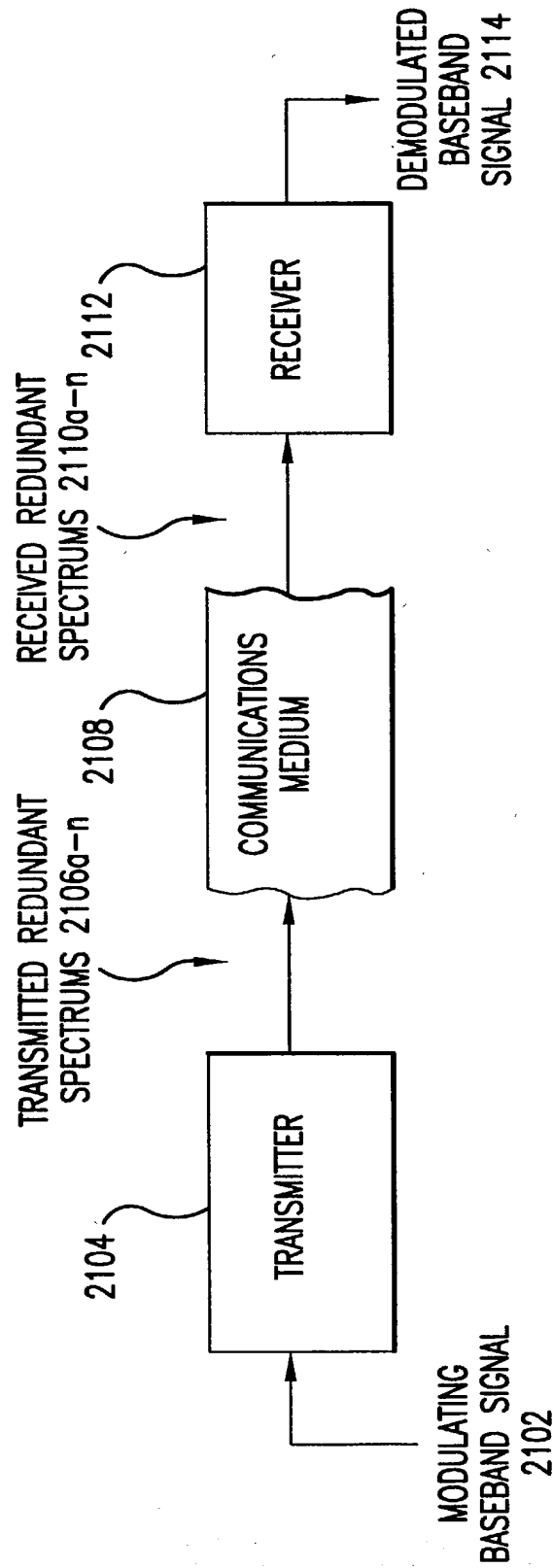


FIG. 21





FIG. 22B

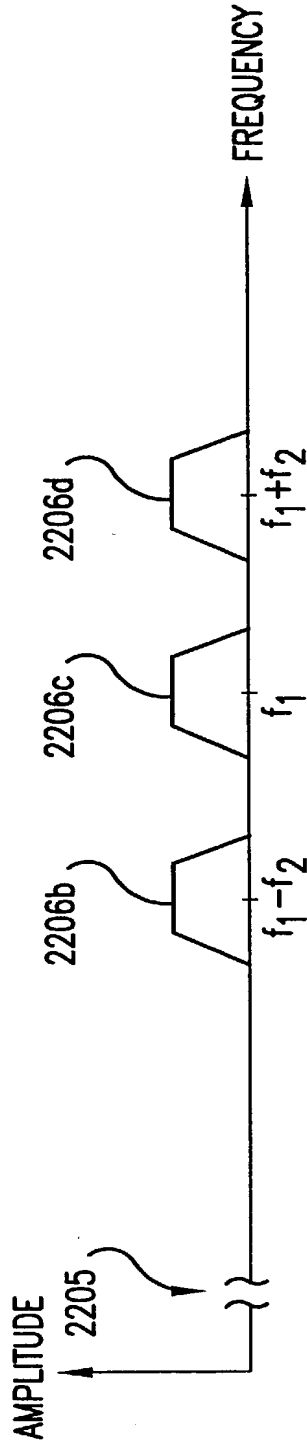


FIG. 22D

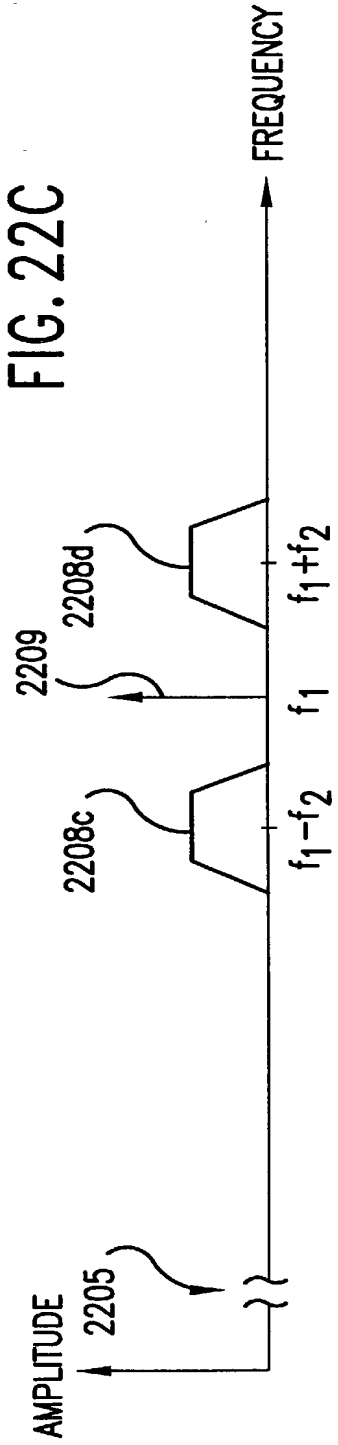


FIG. 22E

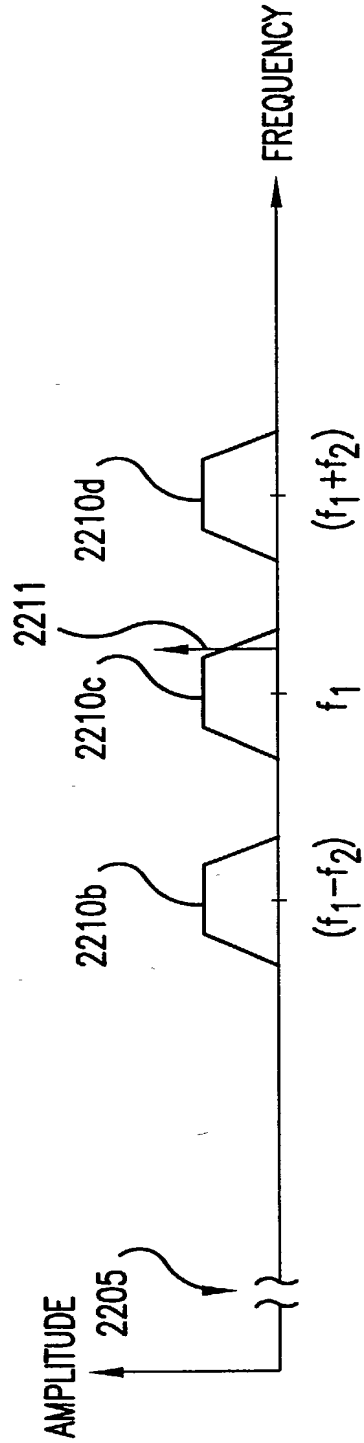


FIG. 22E

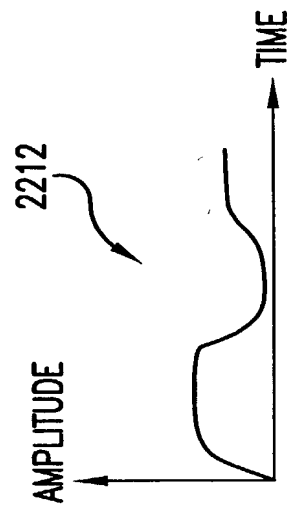


FIG. 22F

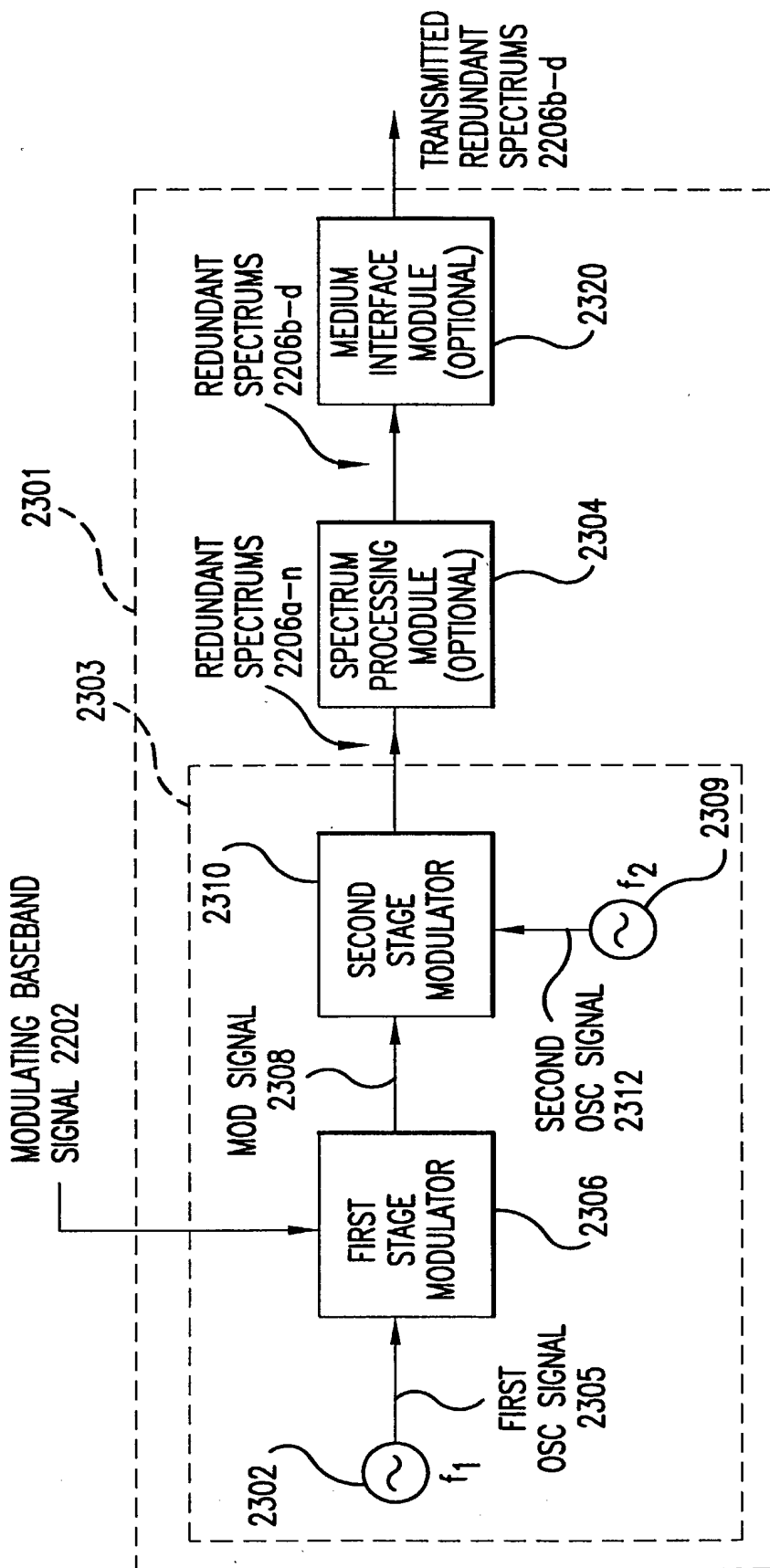


FIG. 23A

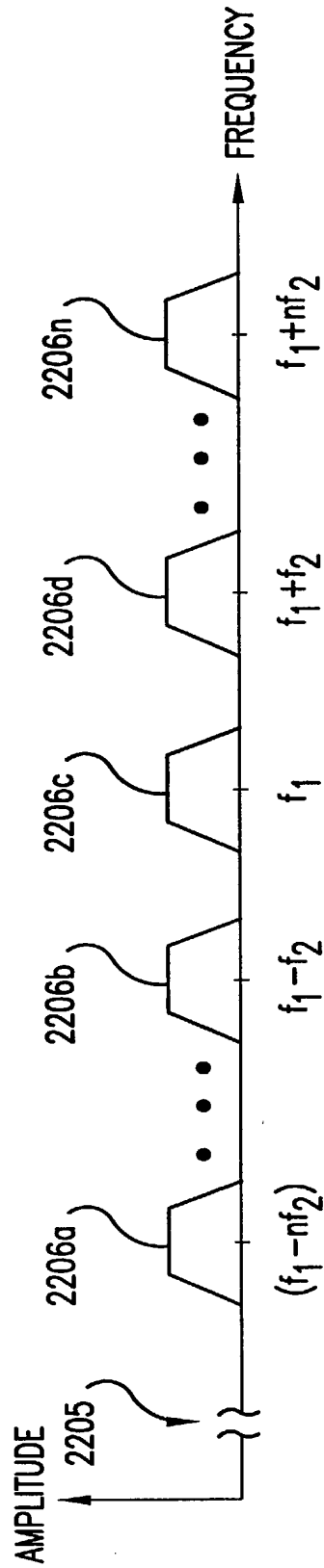


FIG. 23B

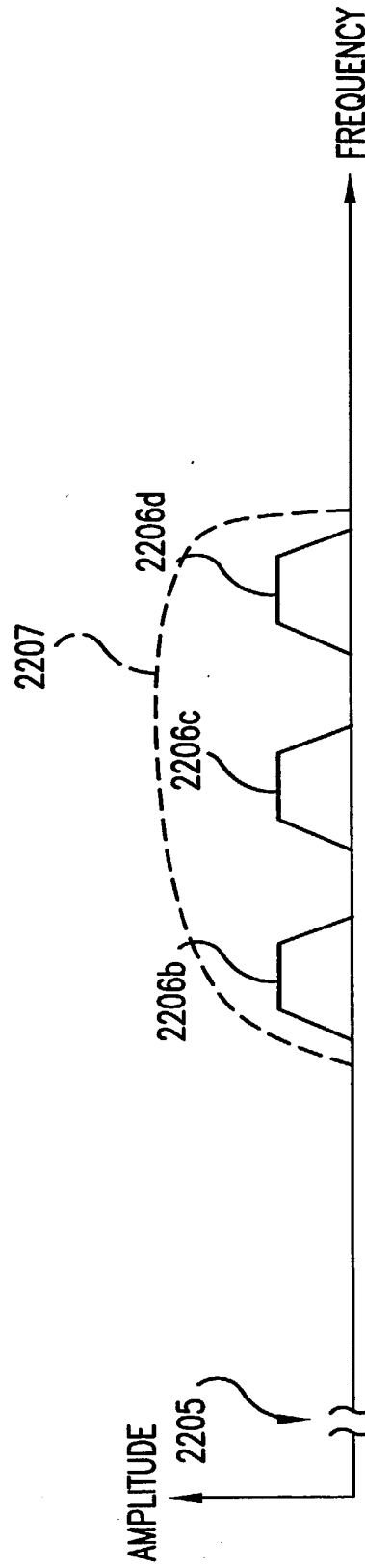


FIG. 23C

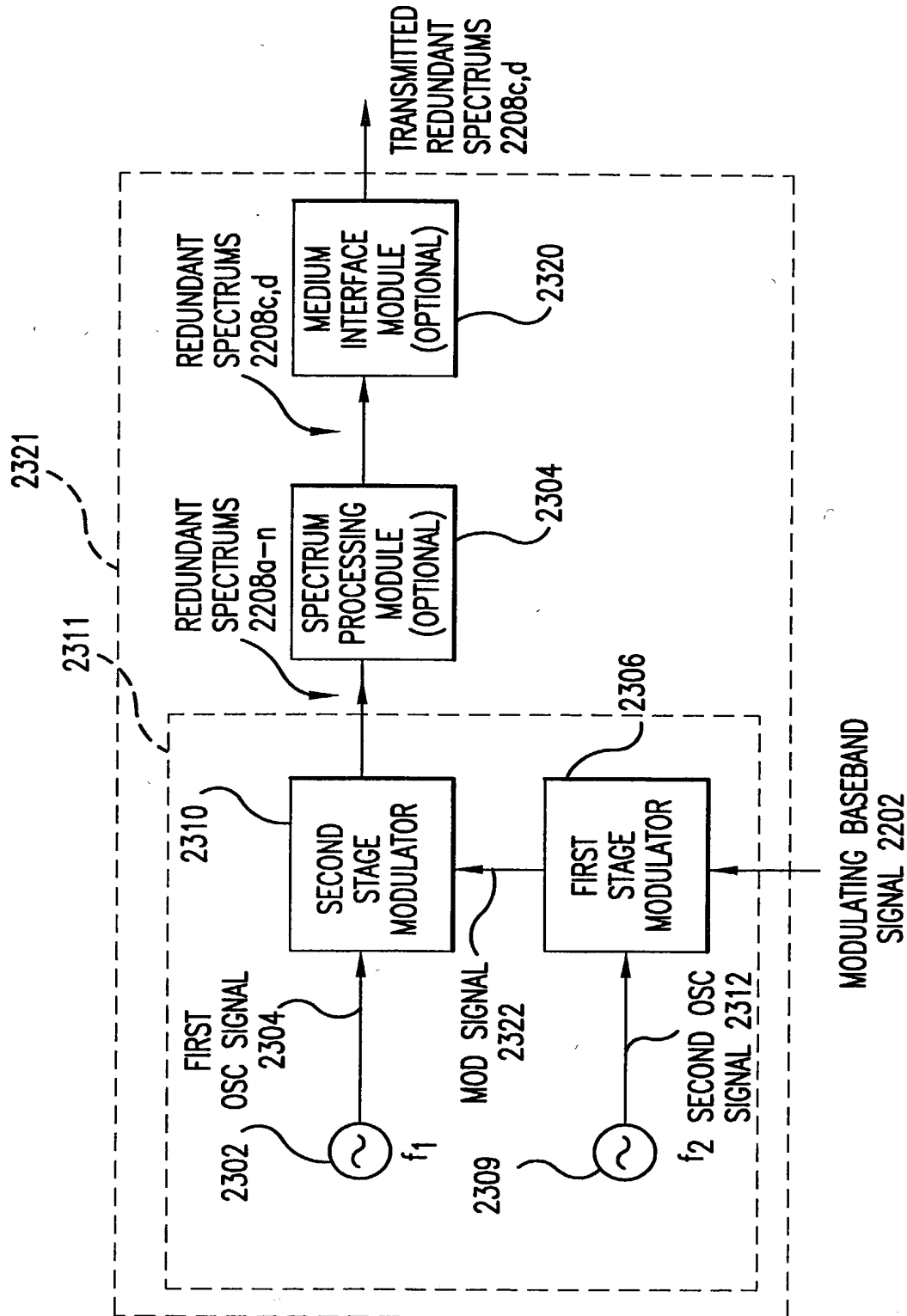


FIG. 23D

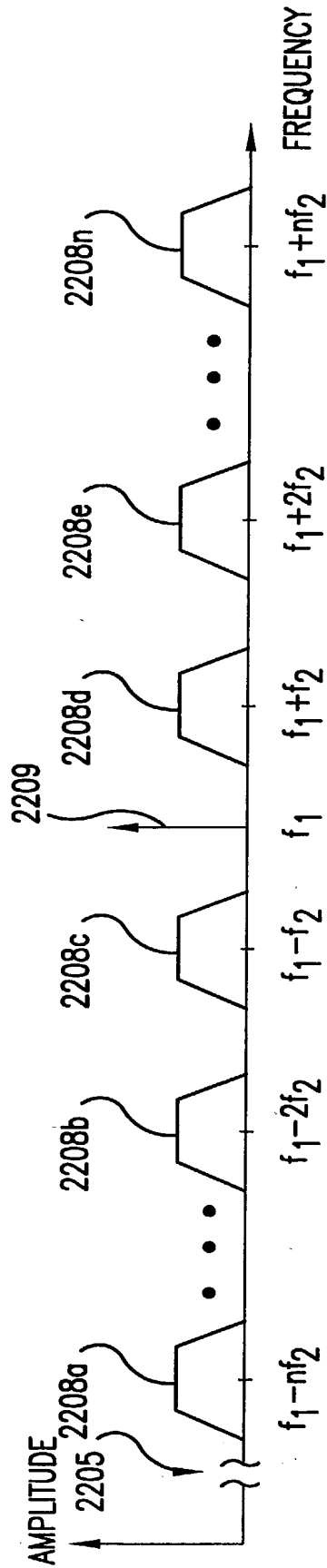


FIG. 23E

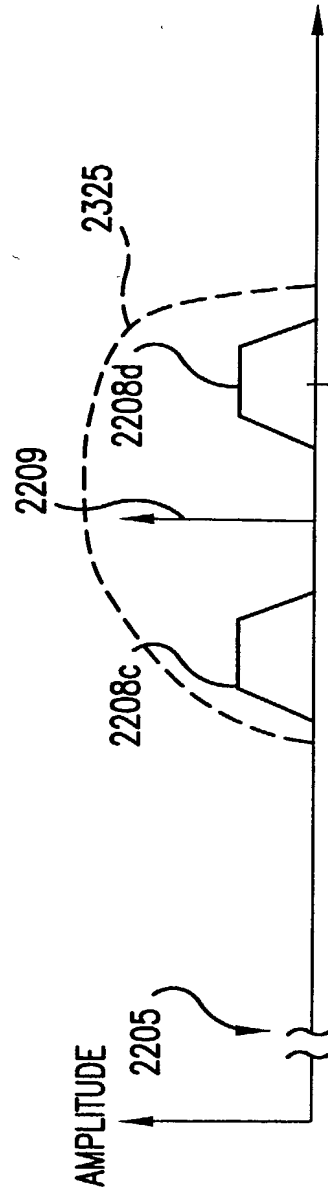


FIG. 23F

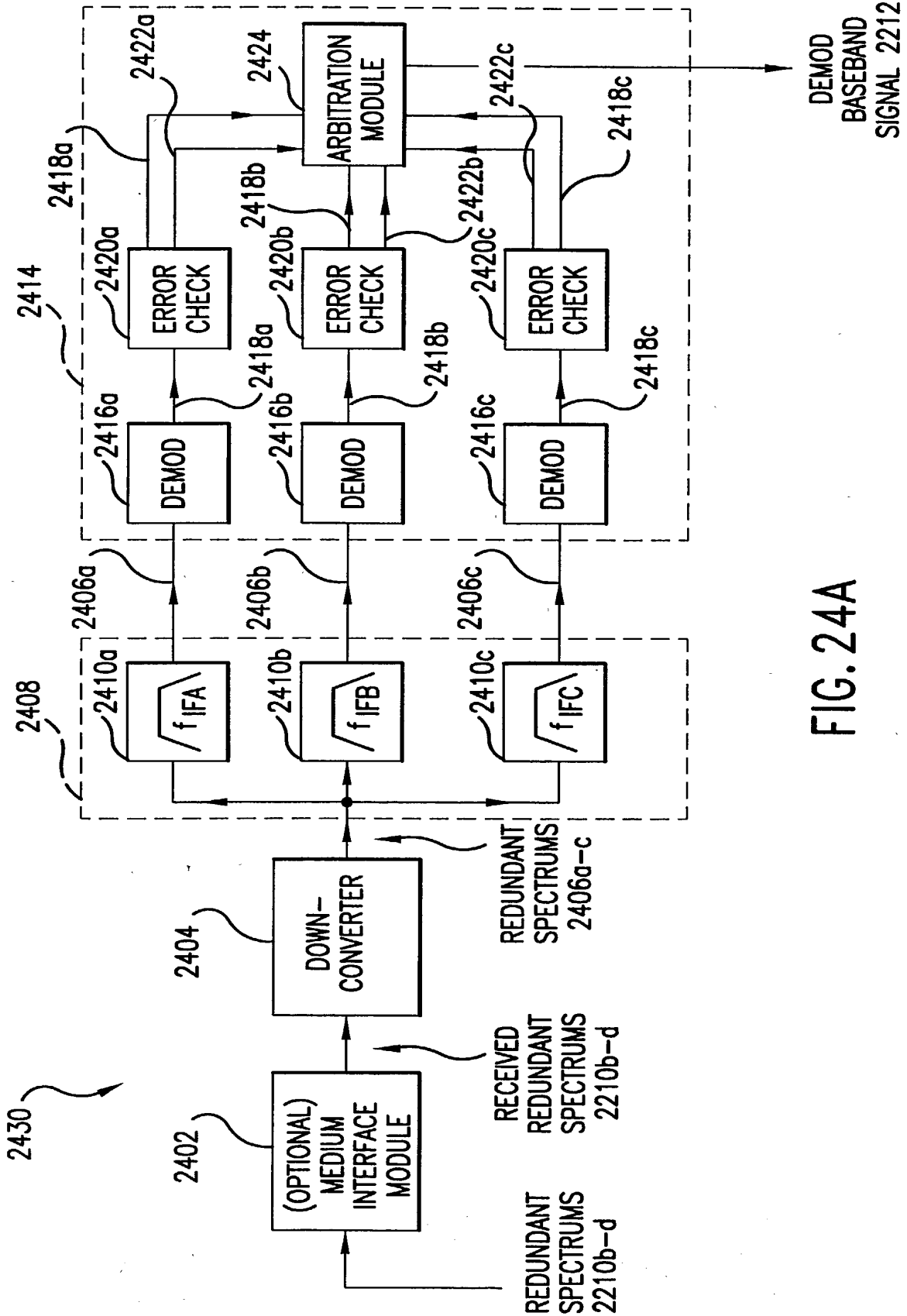


FIG. 24A

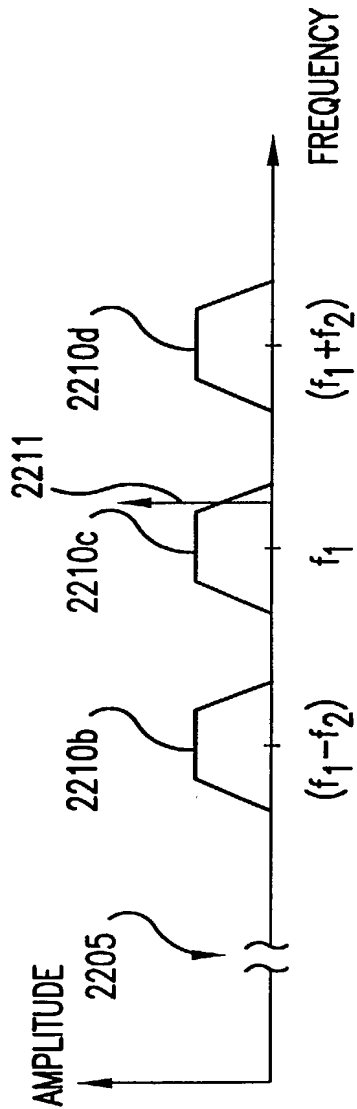


FIG. 24B

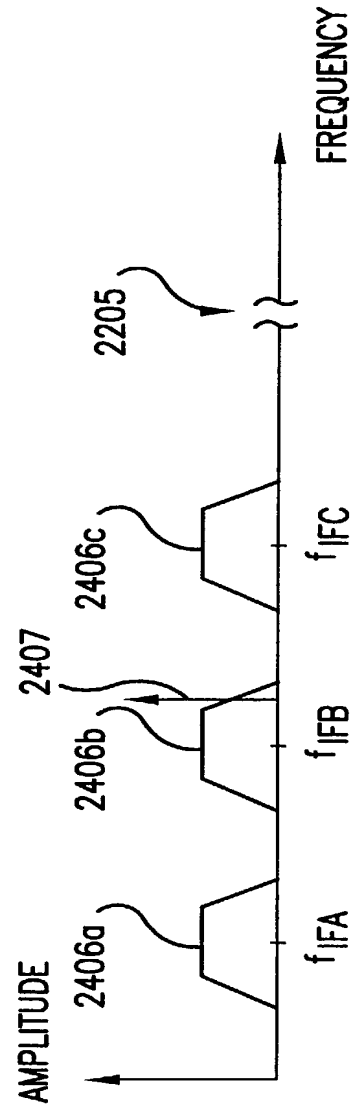


FIG. 24C



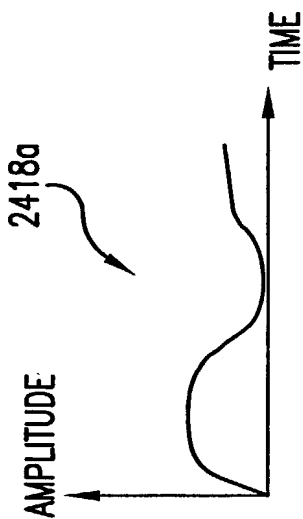


FIG. 24G

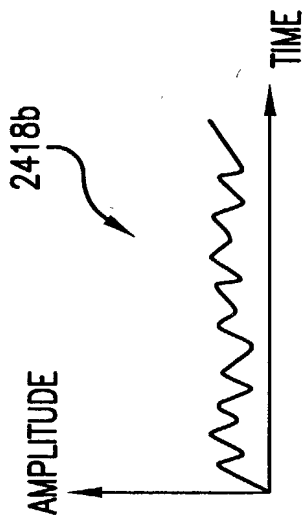


FIG. 24H

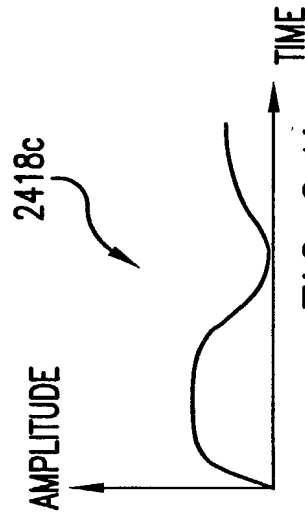


FIG. 24I

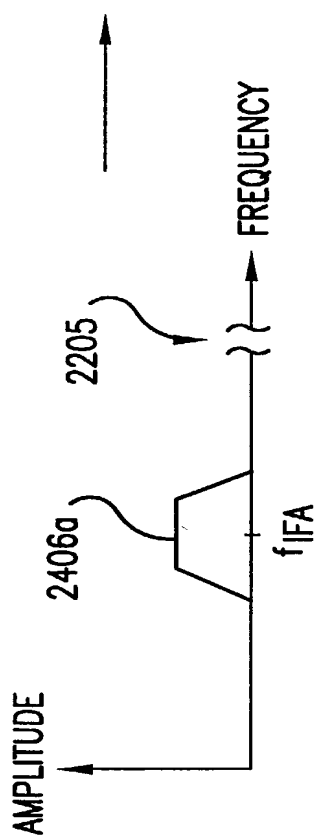


FIG. 24D

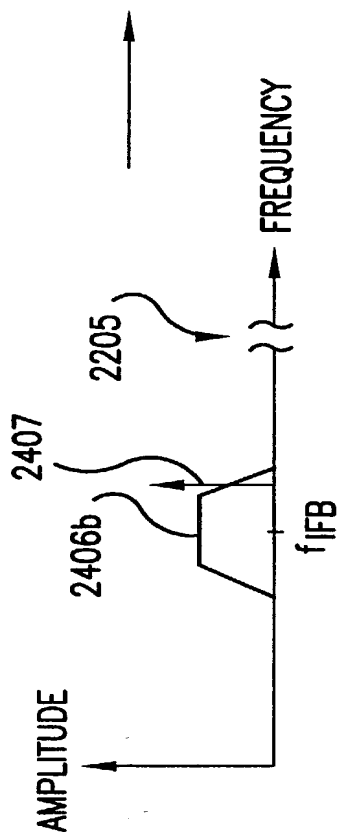


FIG. 24E

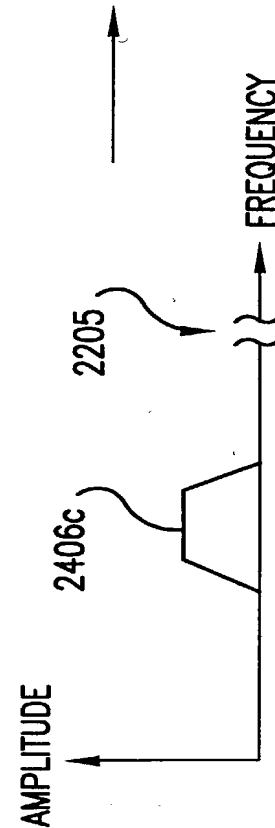


FIG. 24F

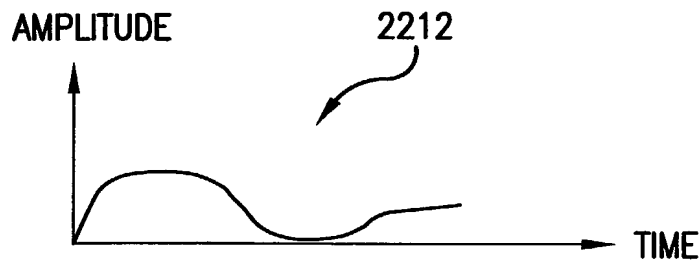


FIG. 24J

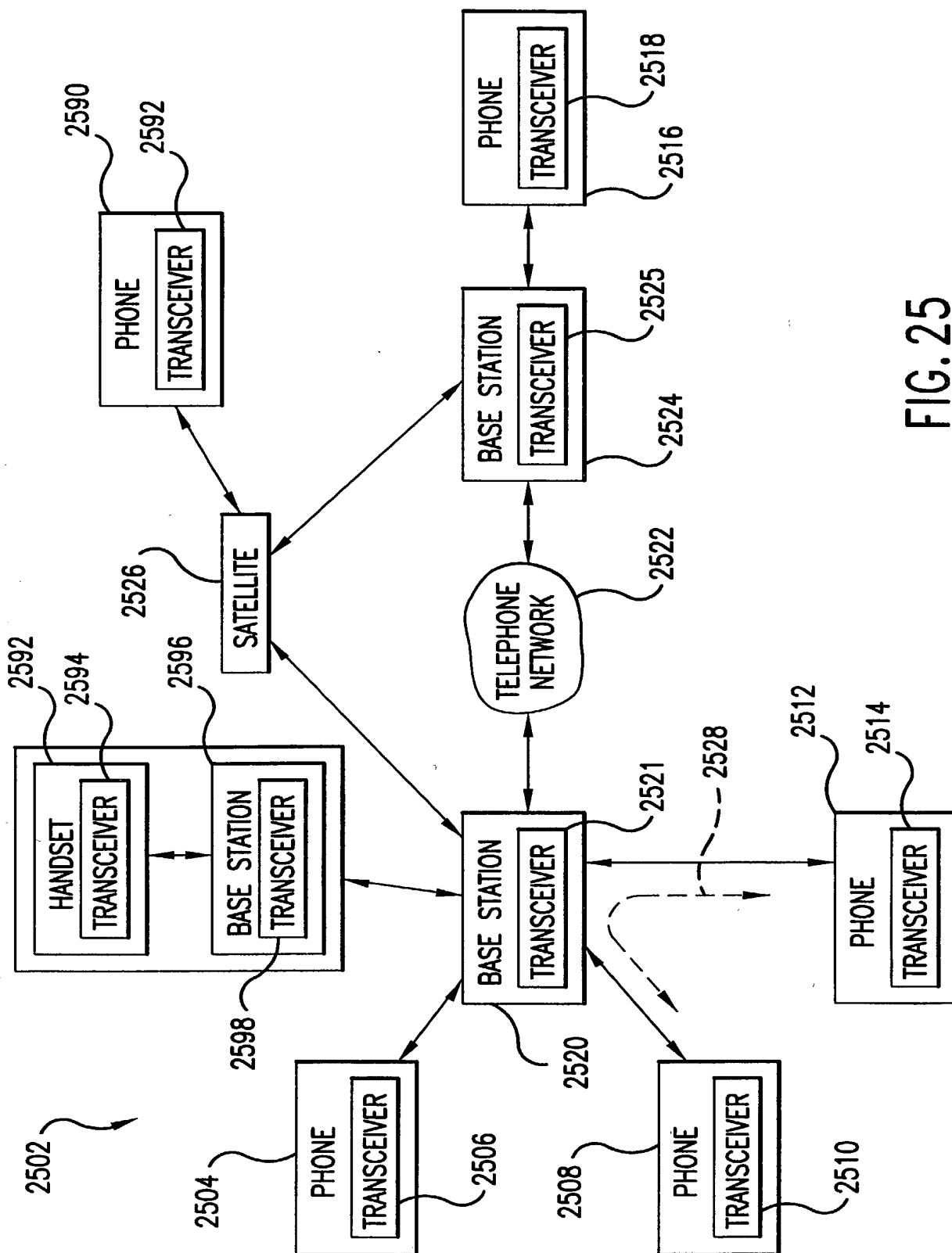


FIG. 25

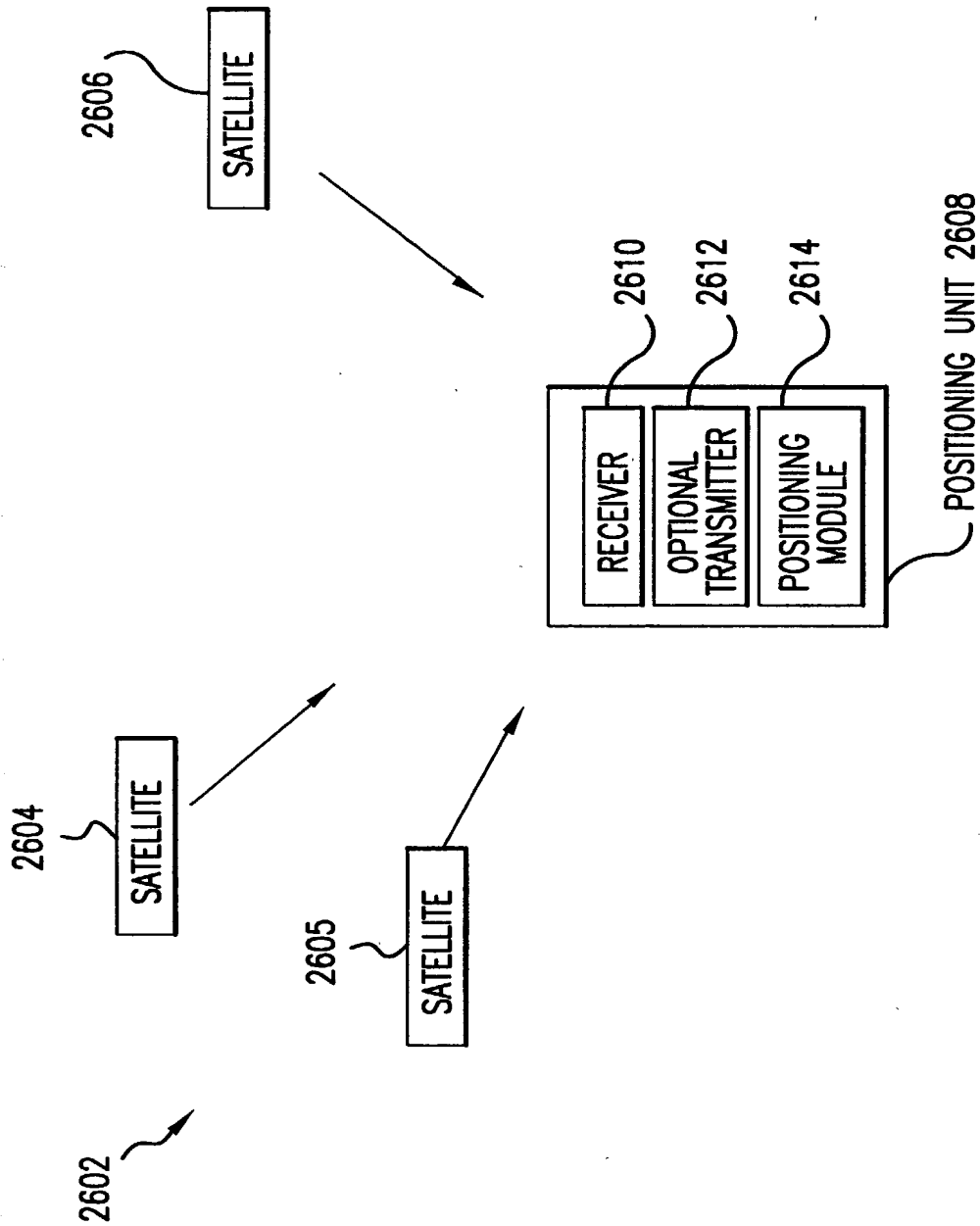


FIG. 26

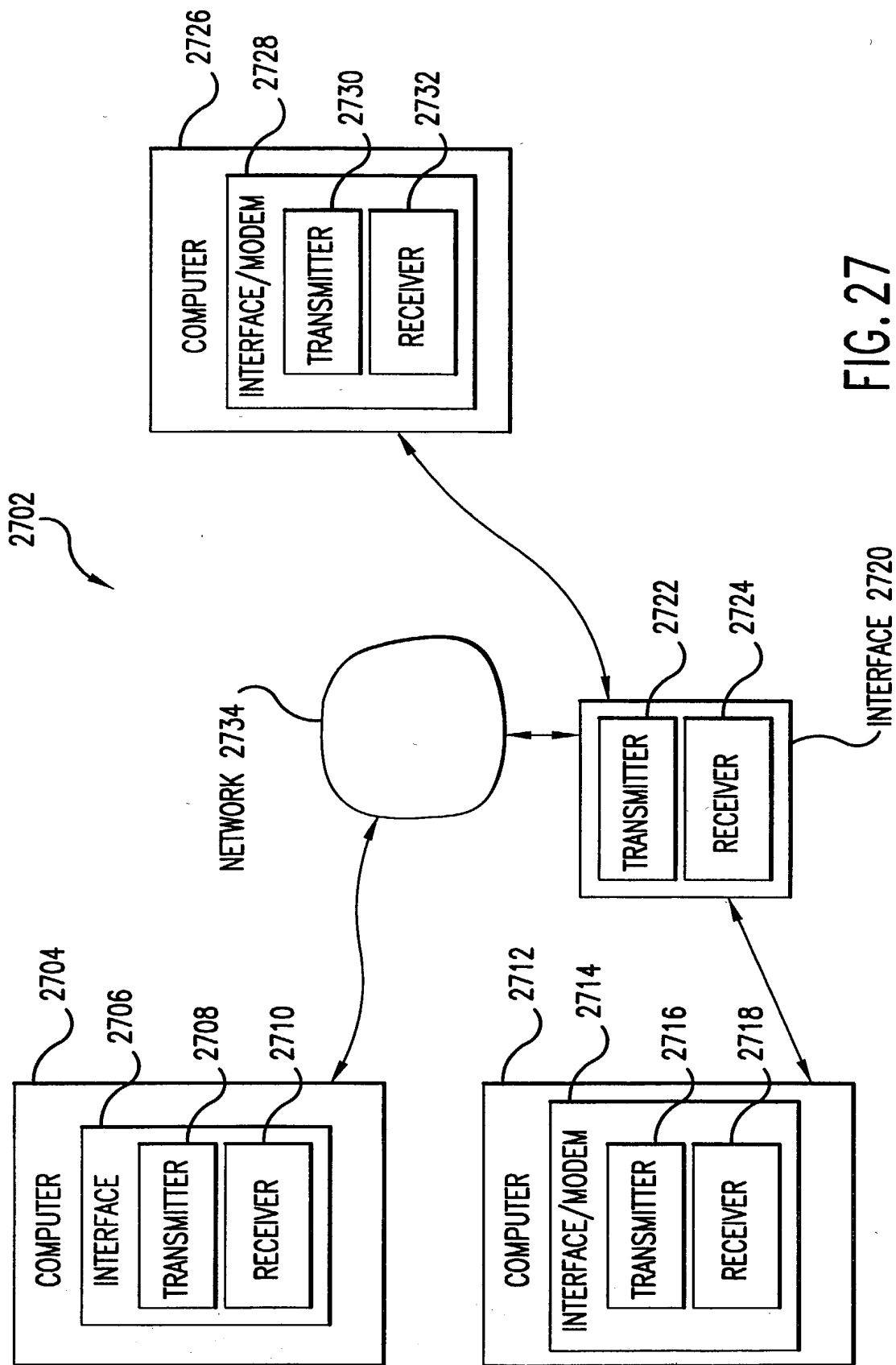


FIG. 27

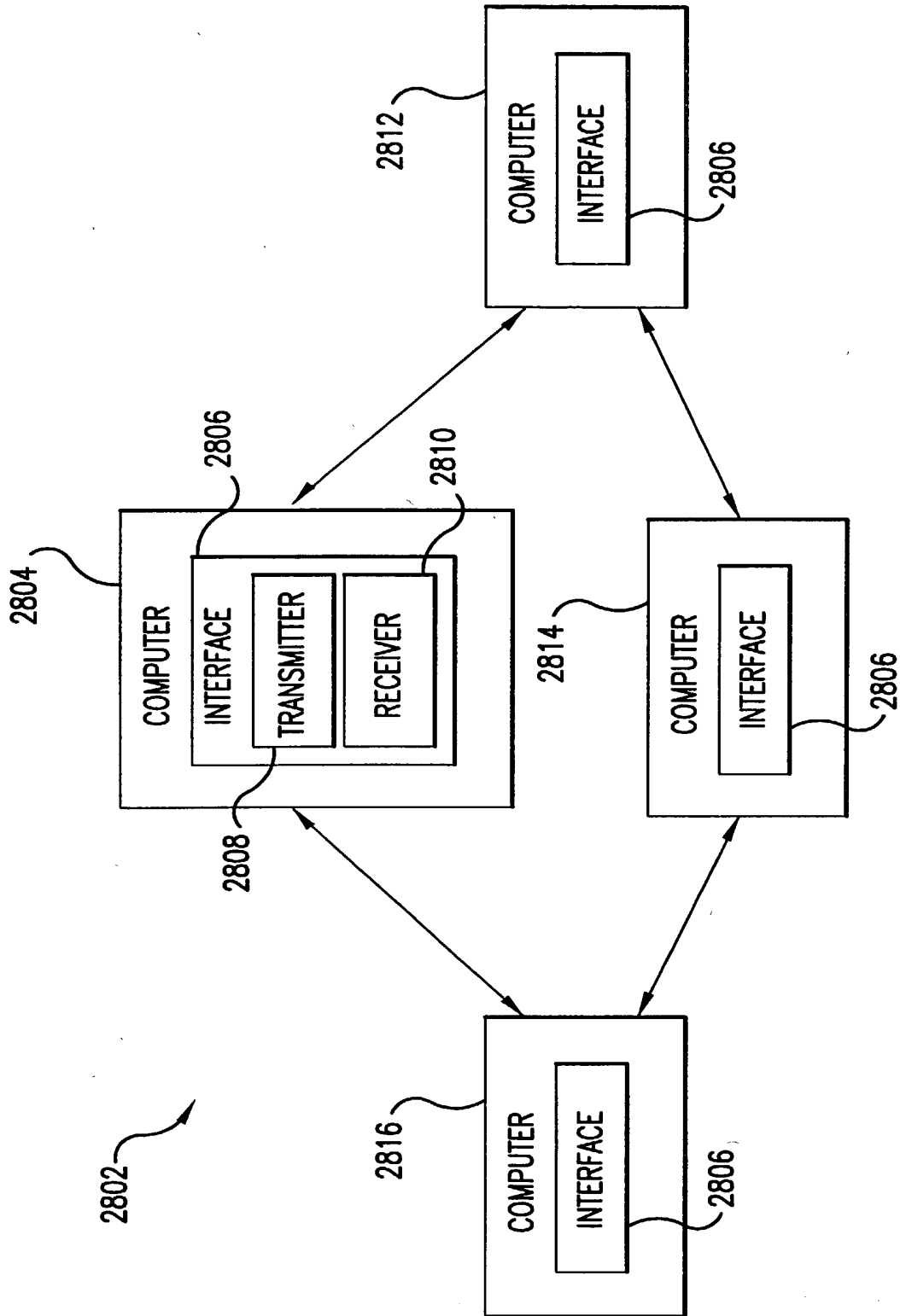


FIG. 28

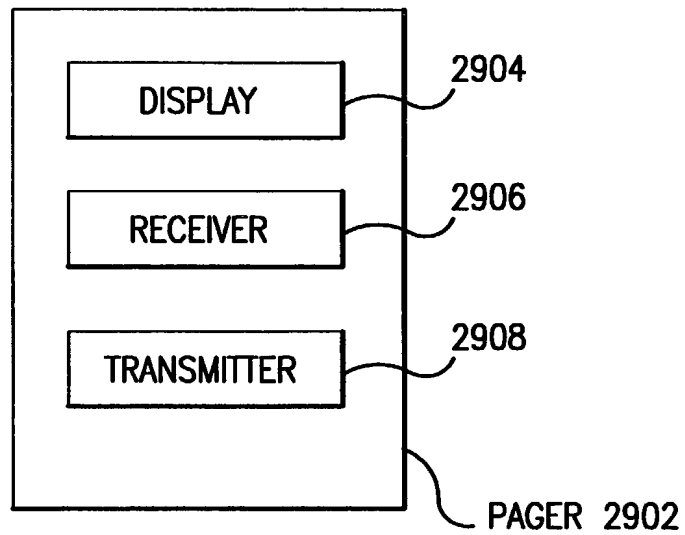


FIG. 29

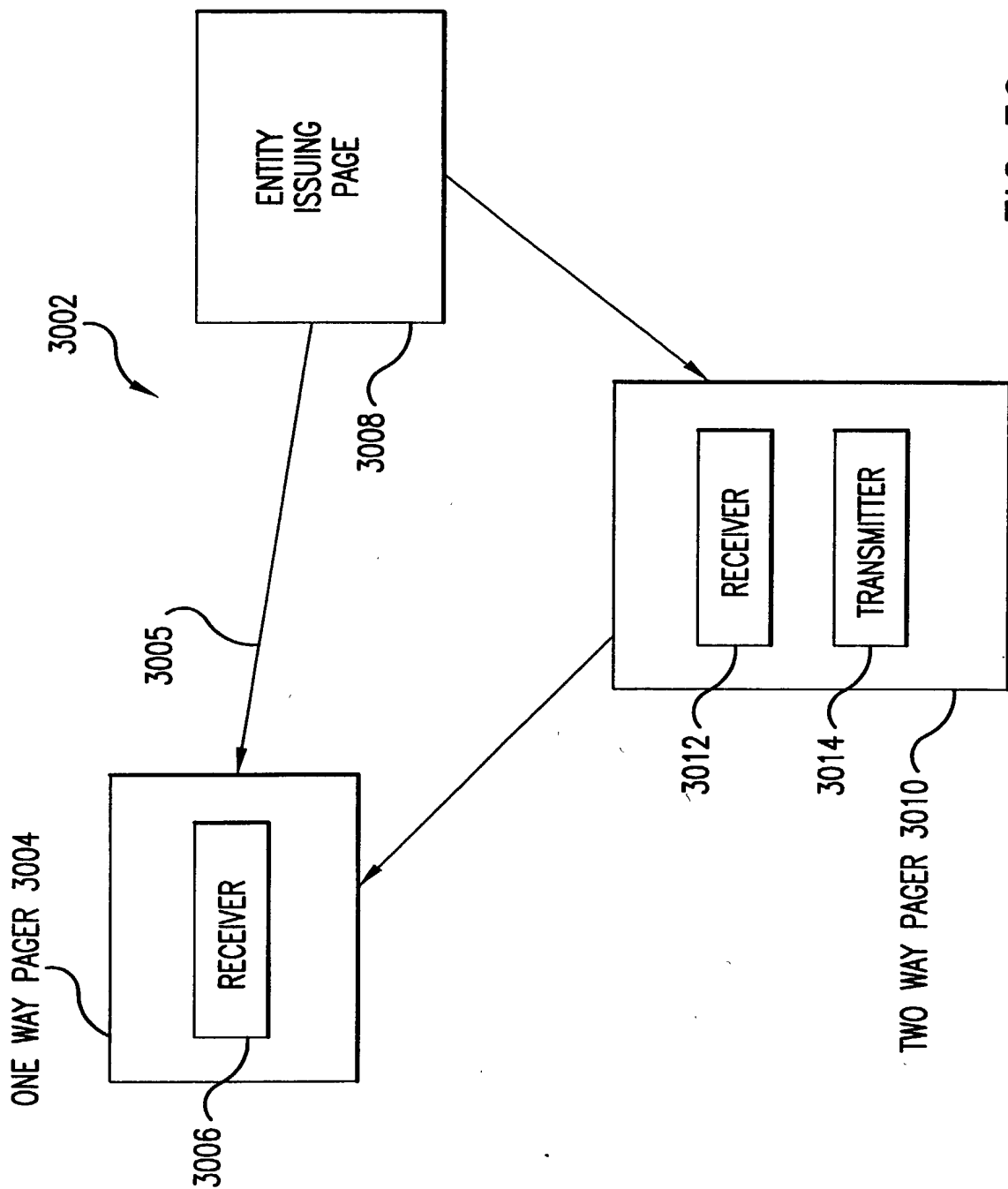


FIG. 30



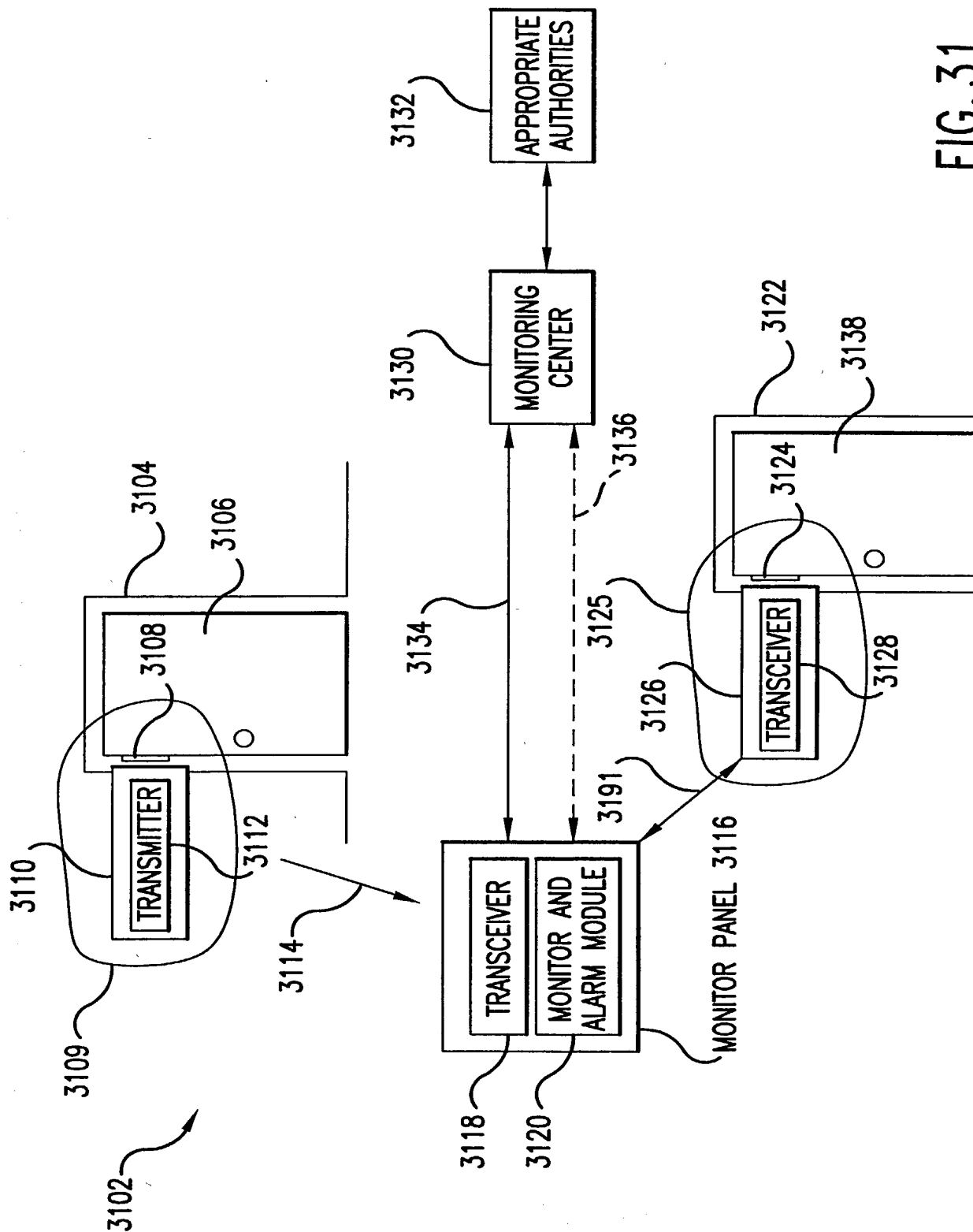


FIG. 31

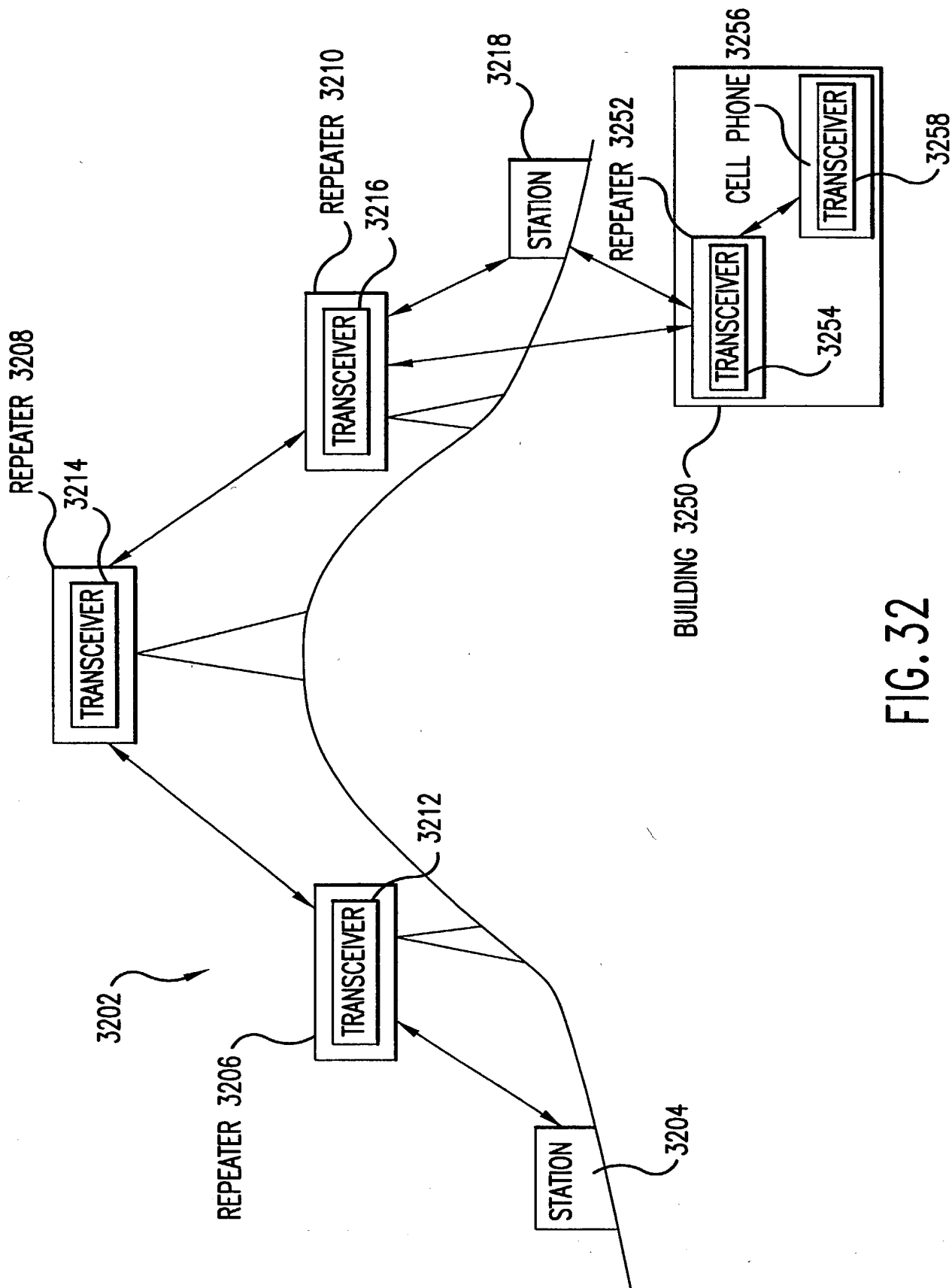


FIG. 32

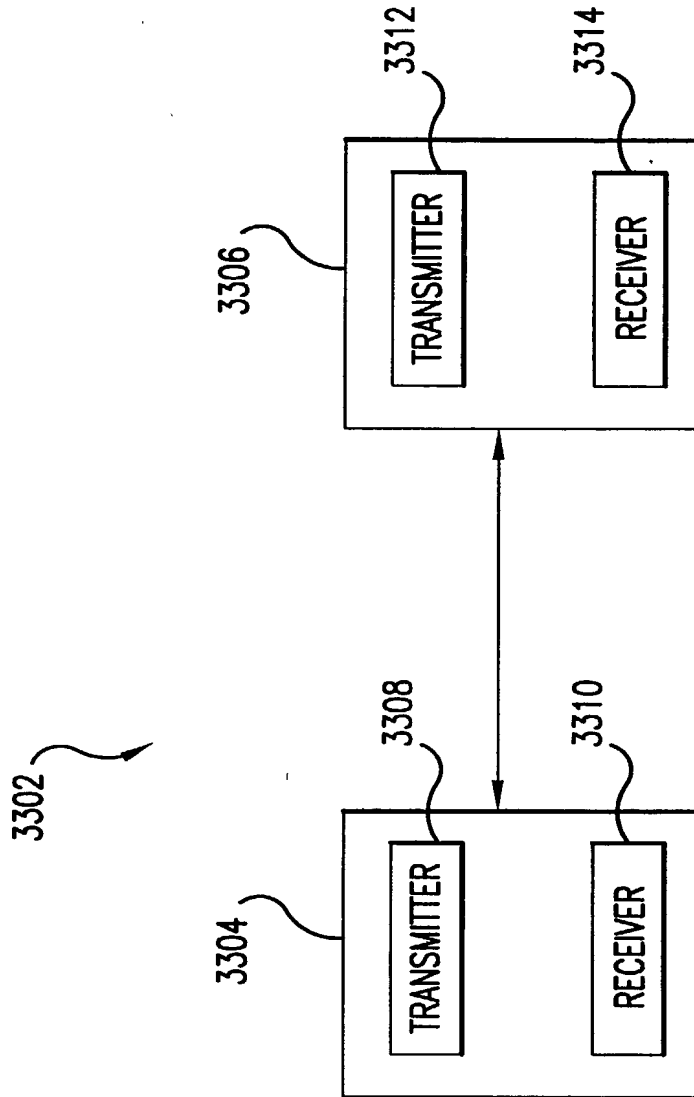


FIG. 33

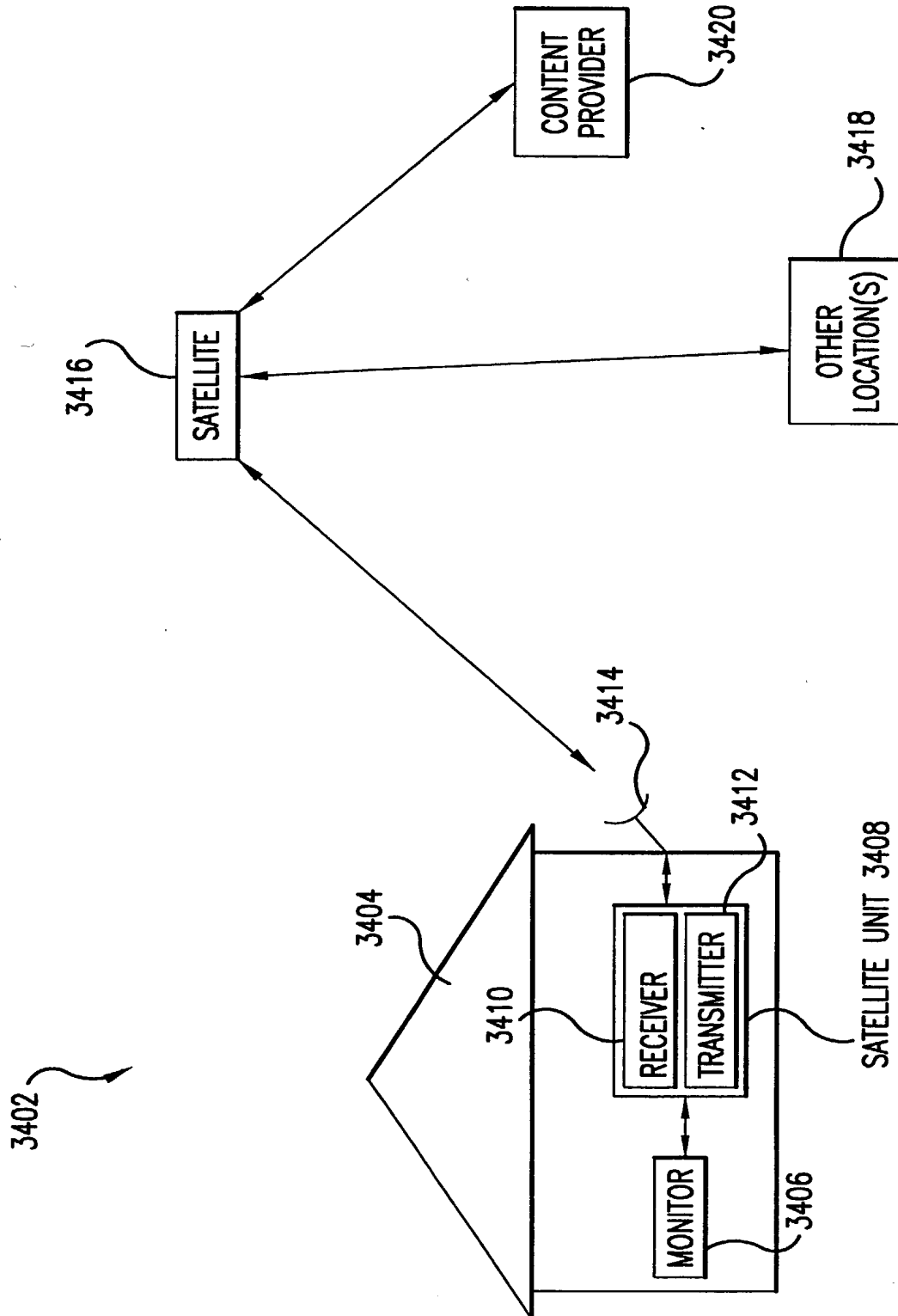


FIG. 34

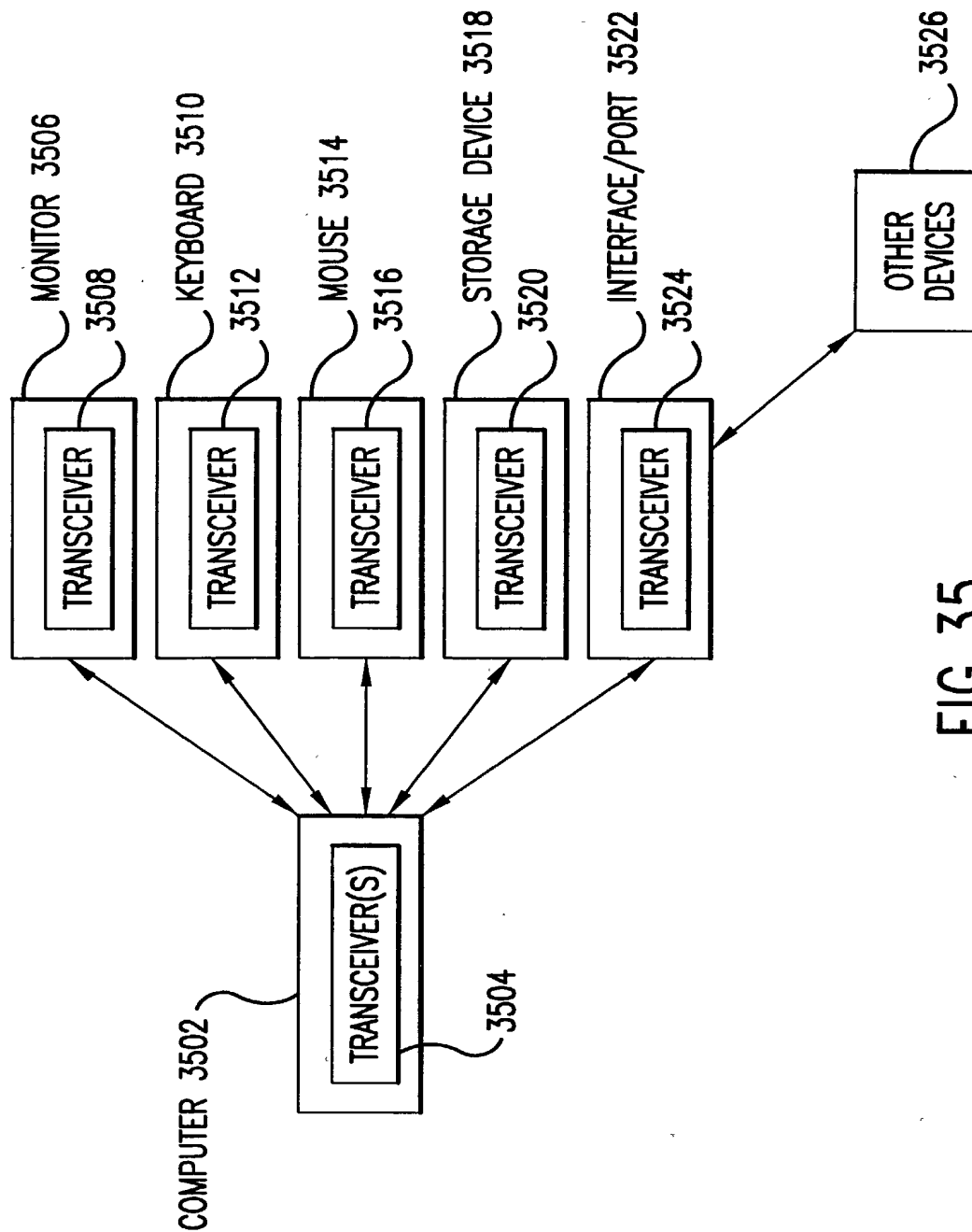


FIG. 35

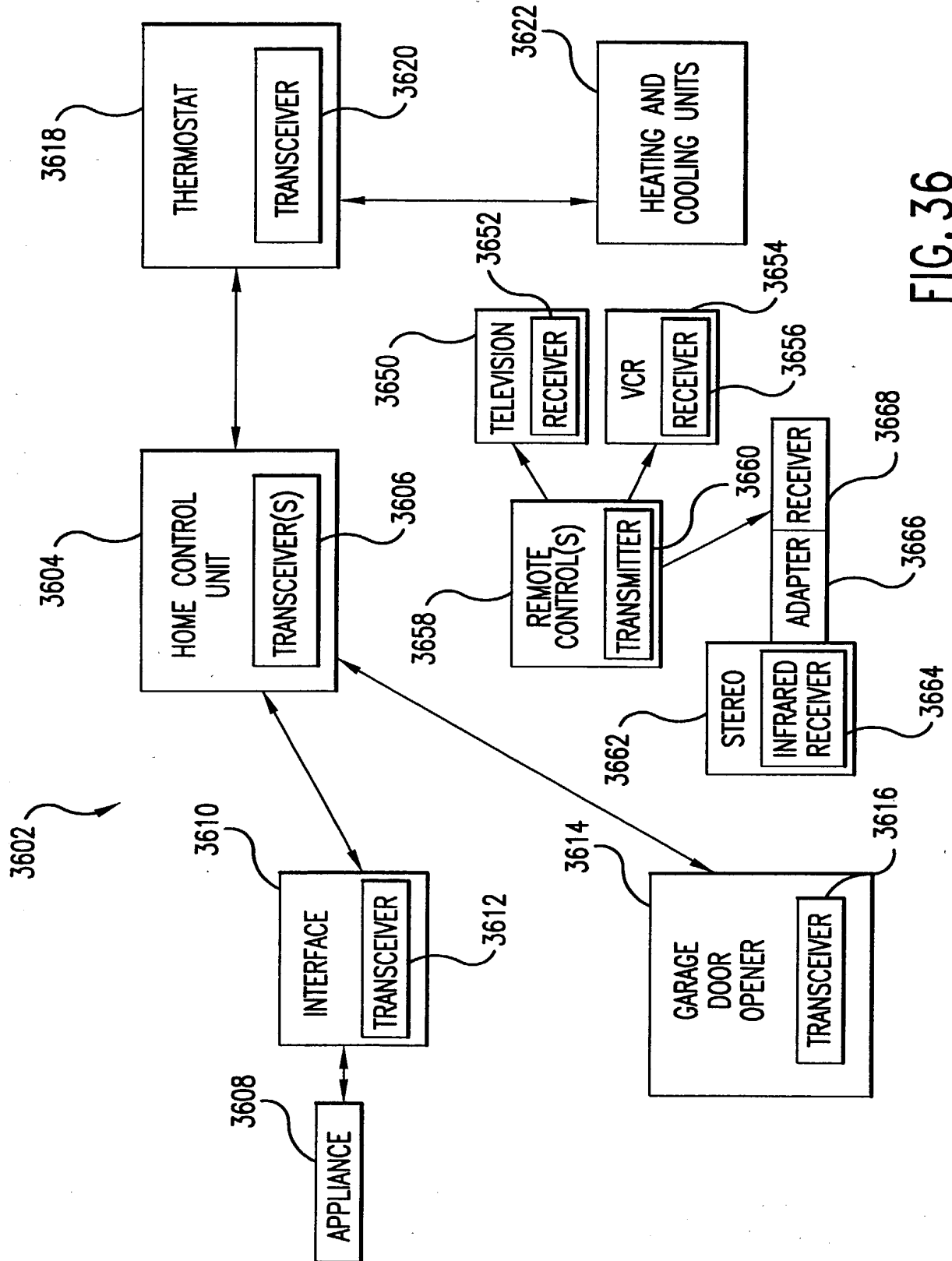


FIG. 36

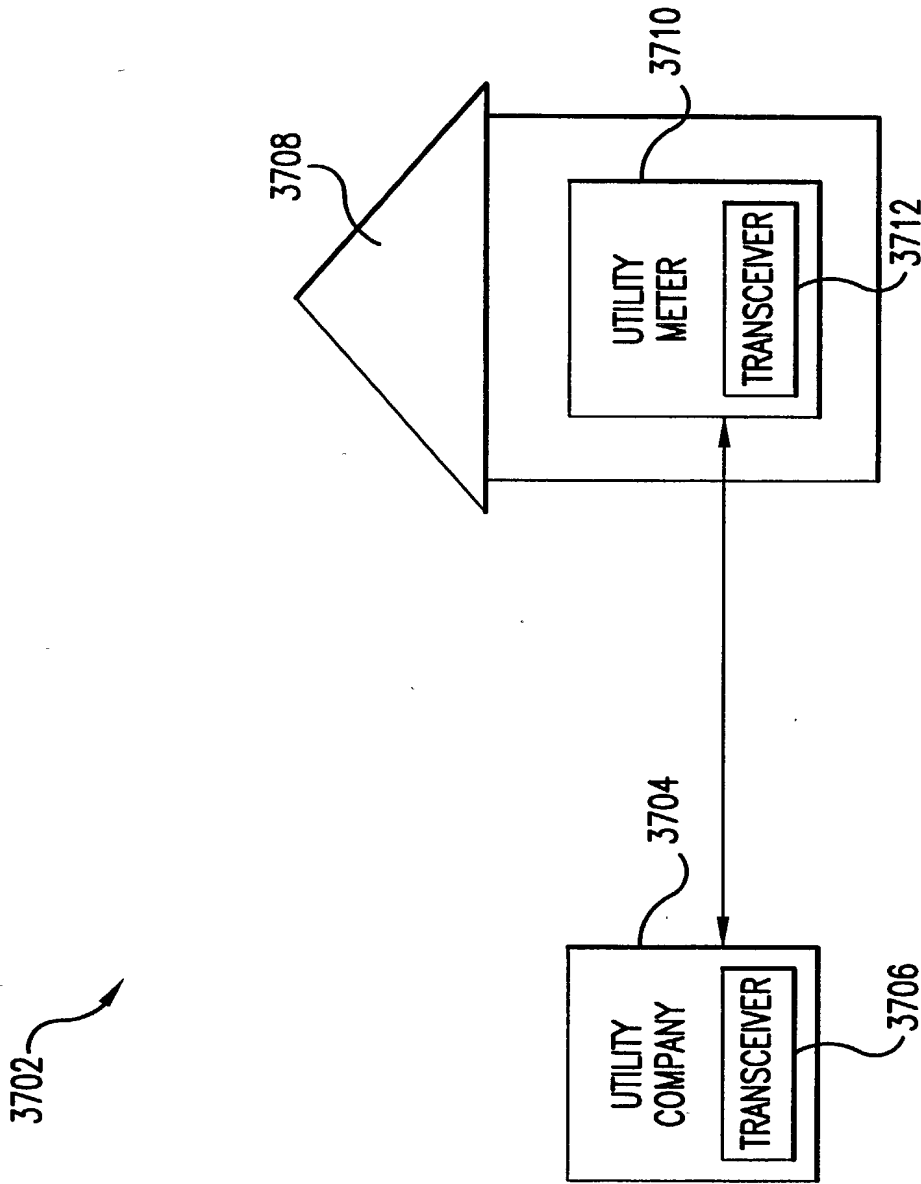


FIG. 37

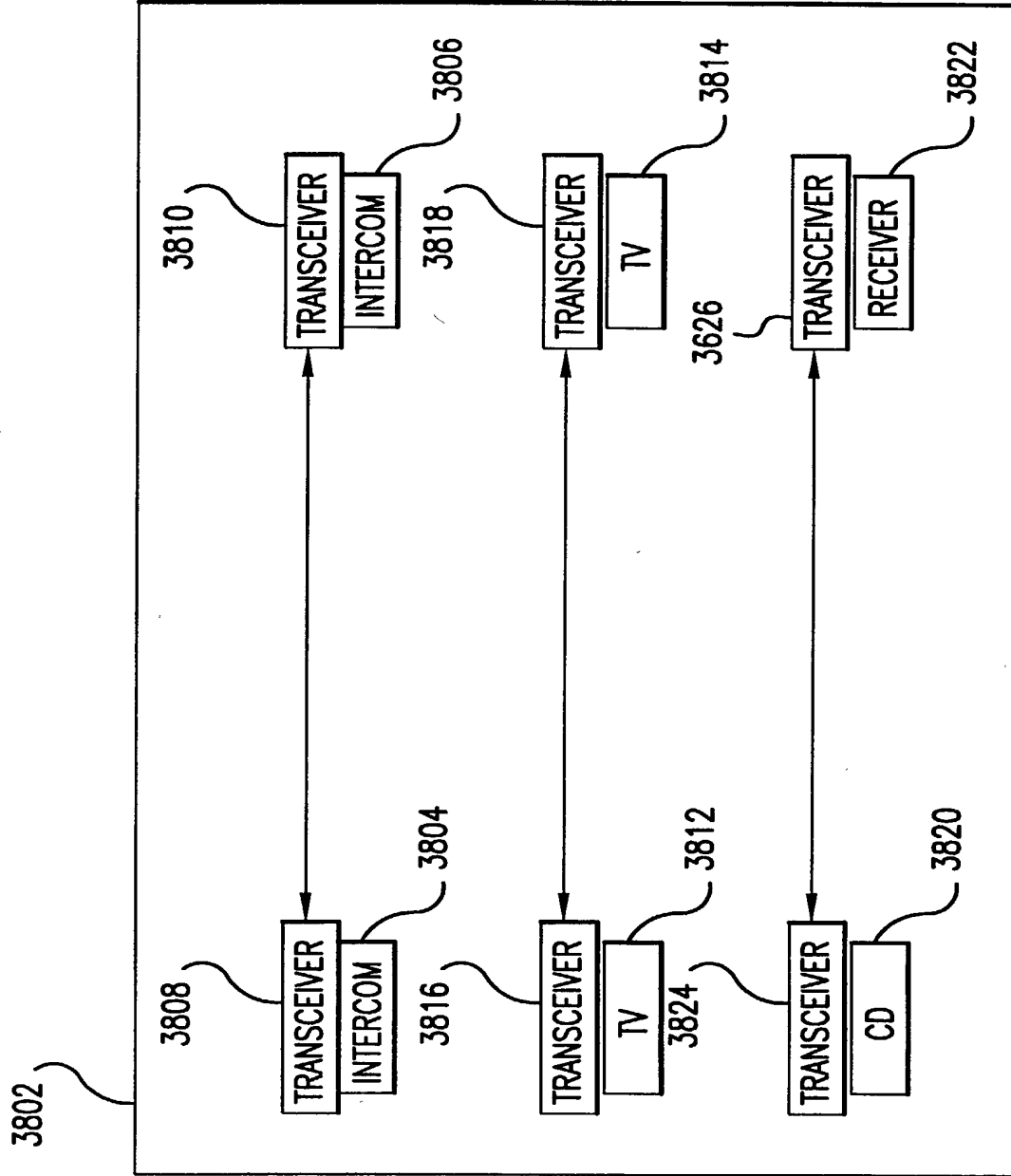
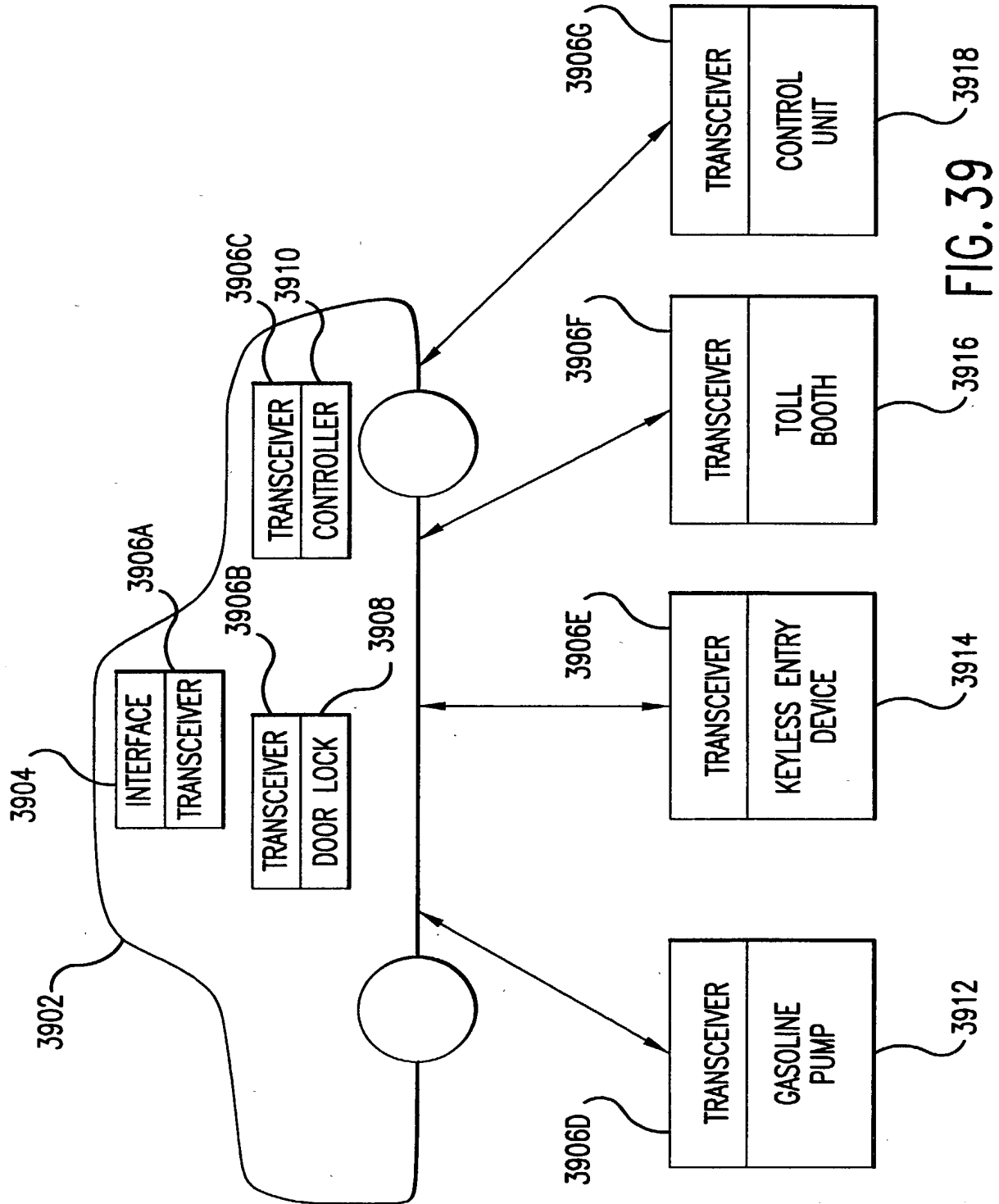


FIG. 38





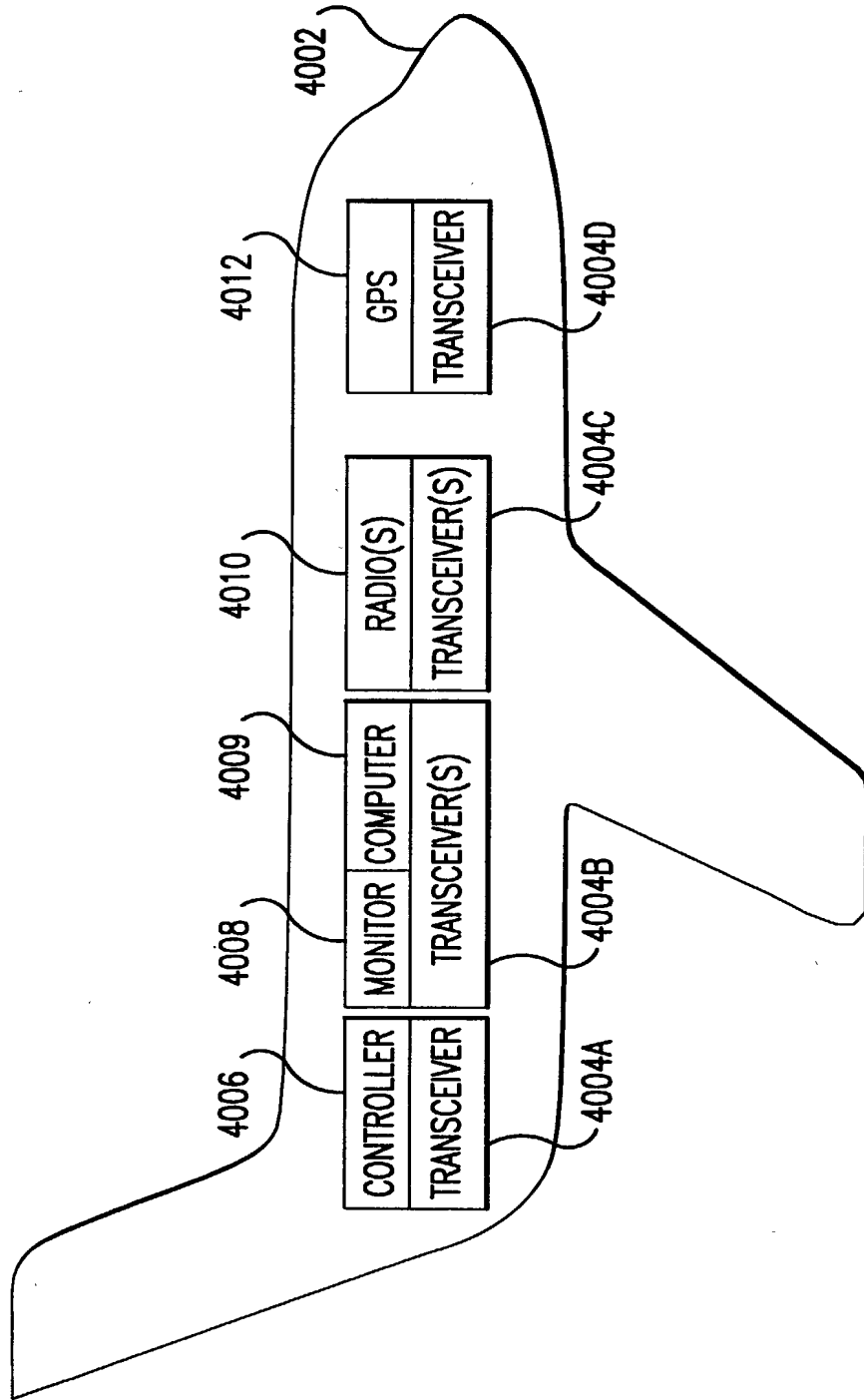


FIG. 40A

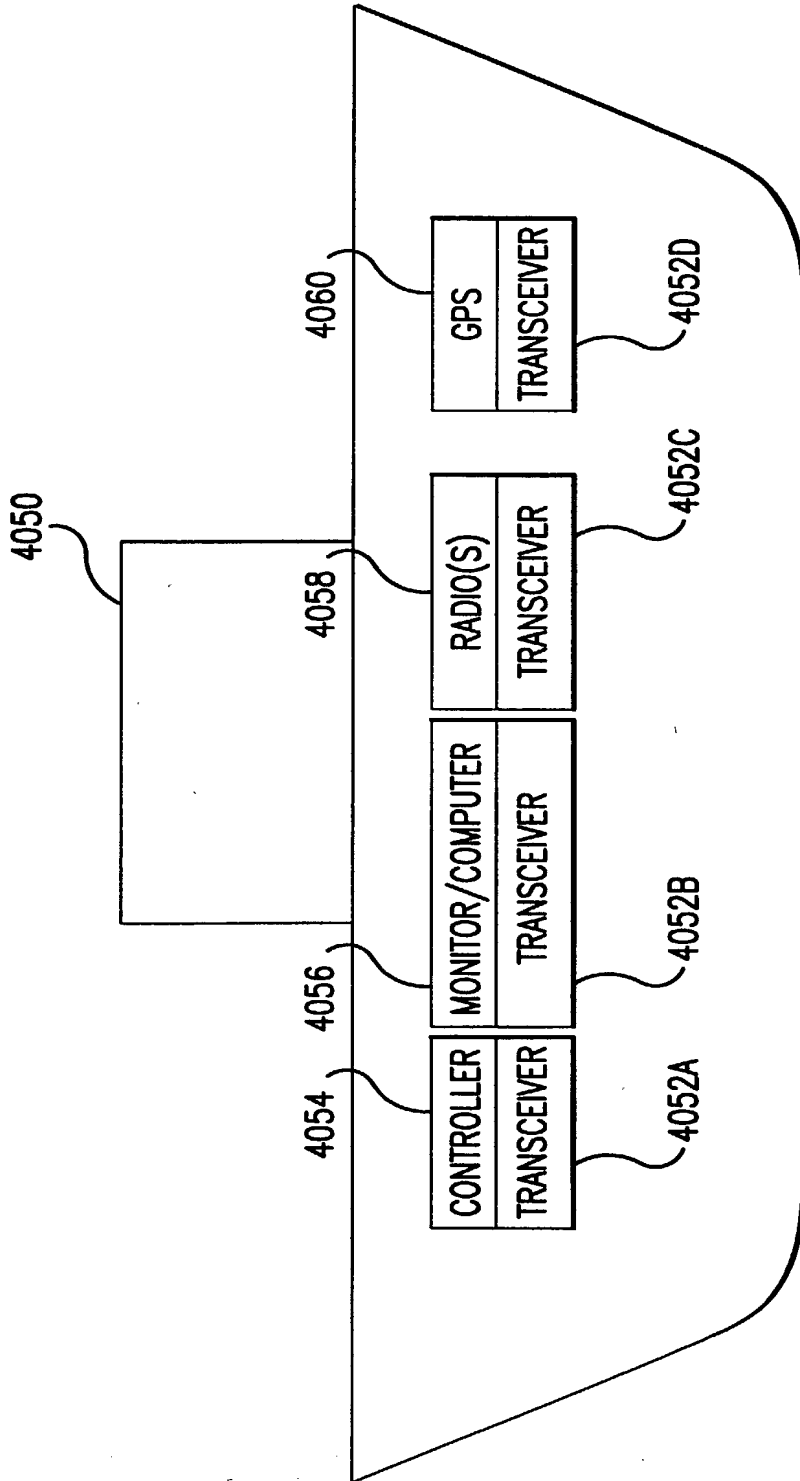


FIG. 40B

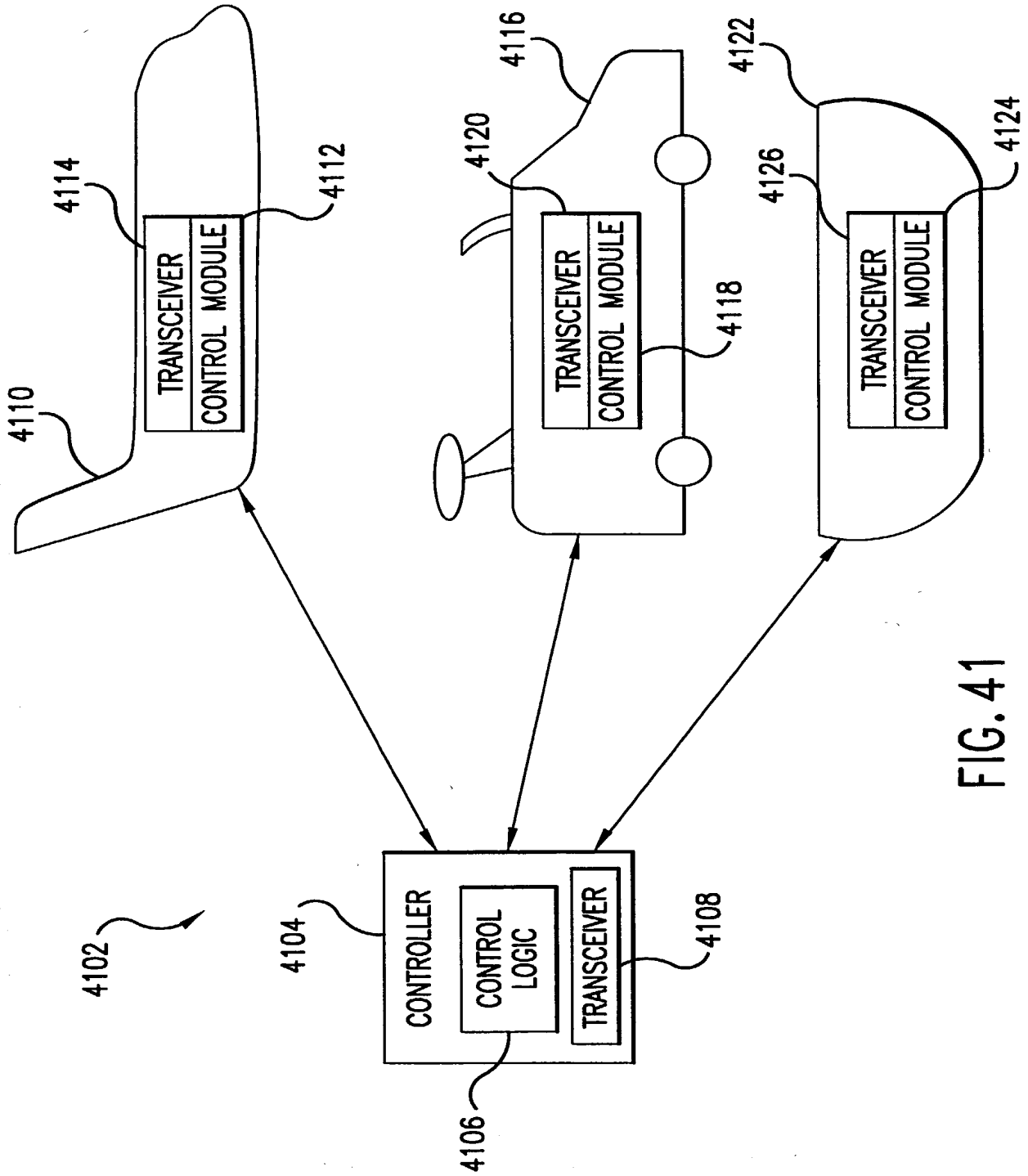


FIG. 41

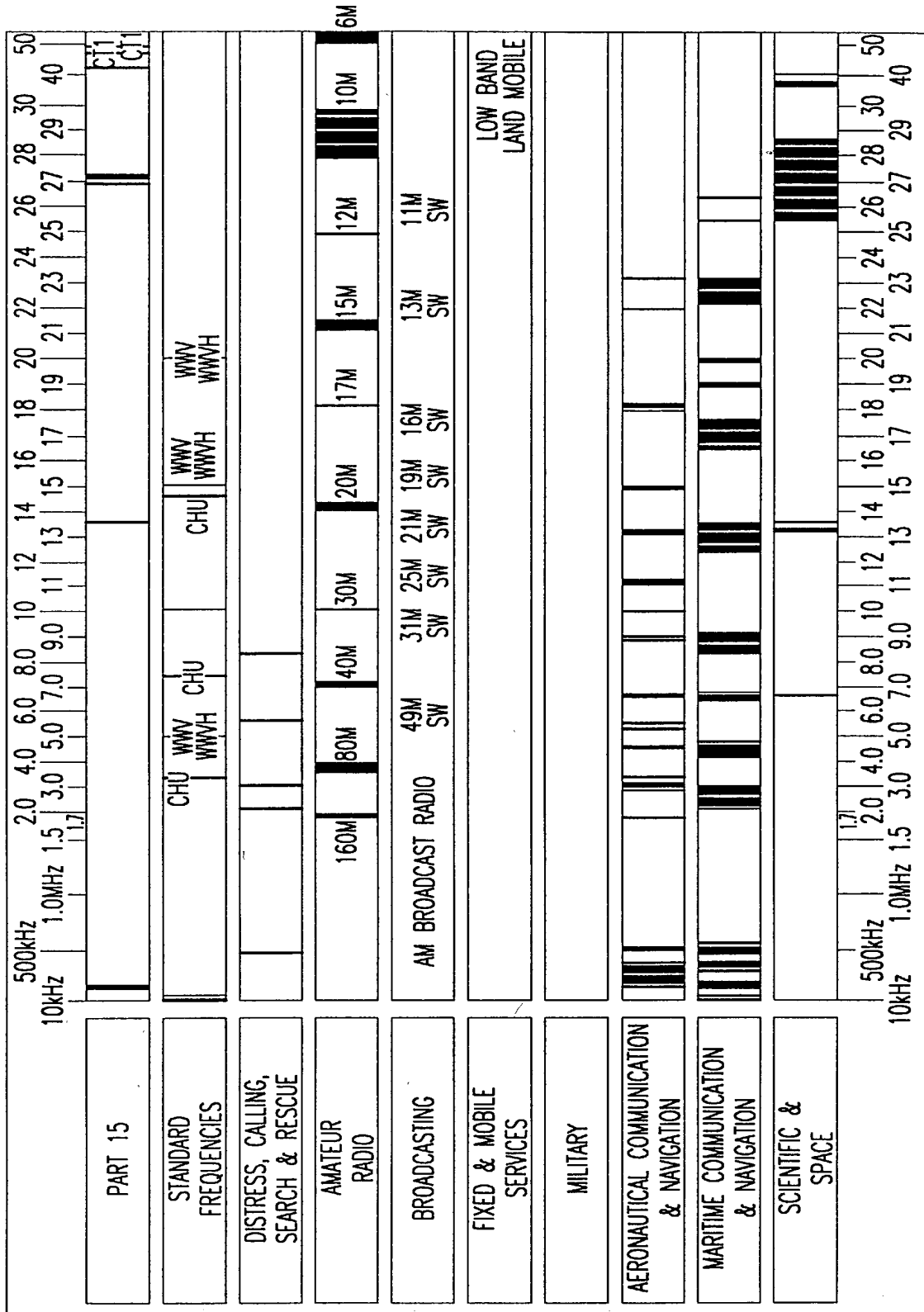


FIG. 42A

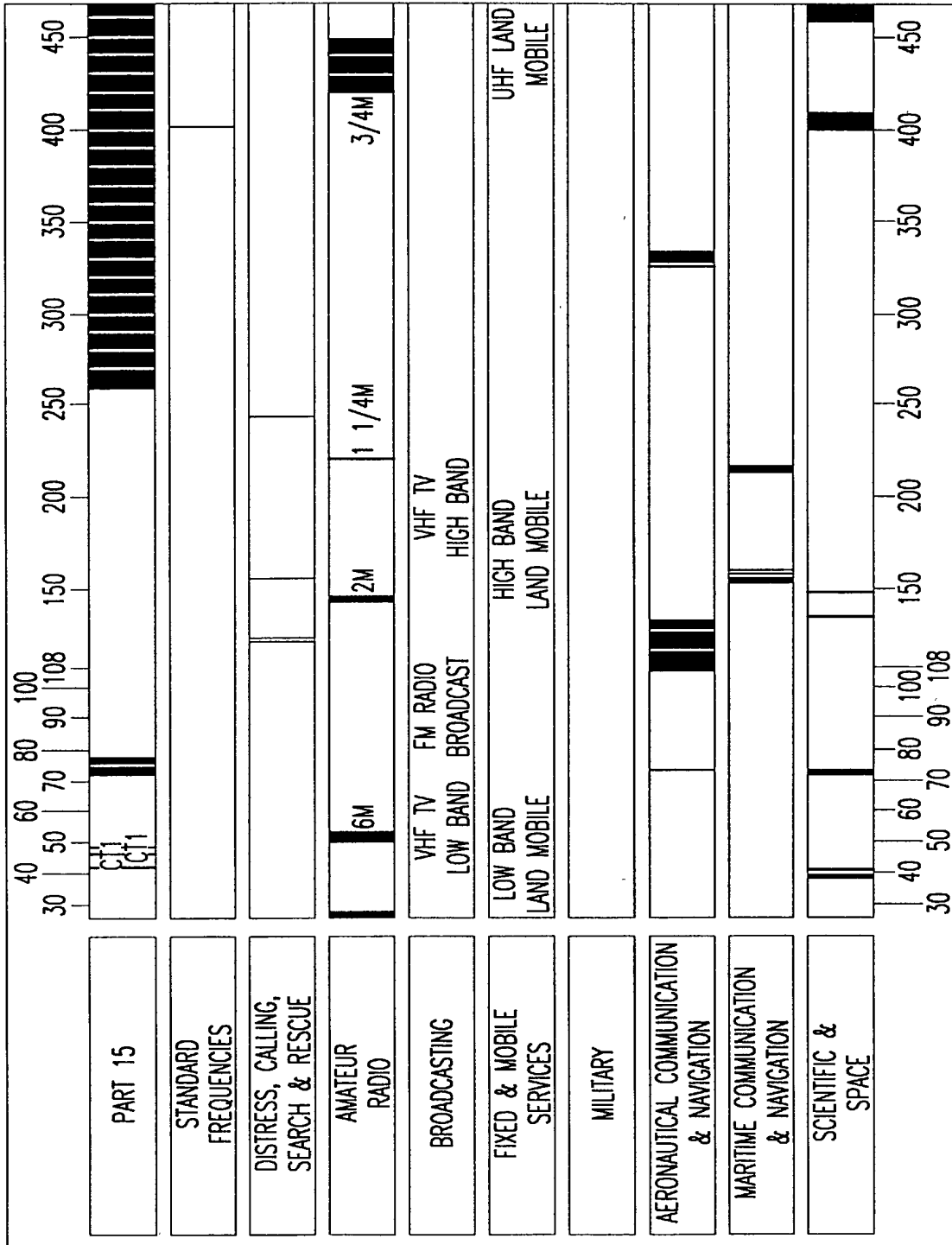


FIG. 42B

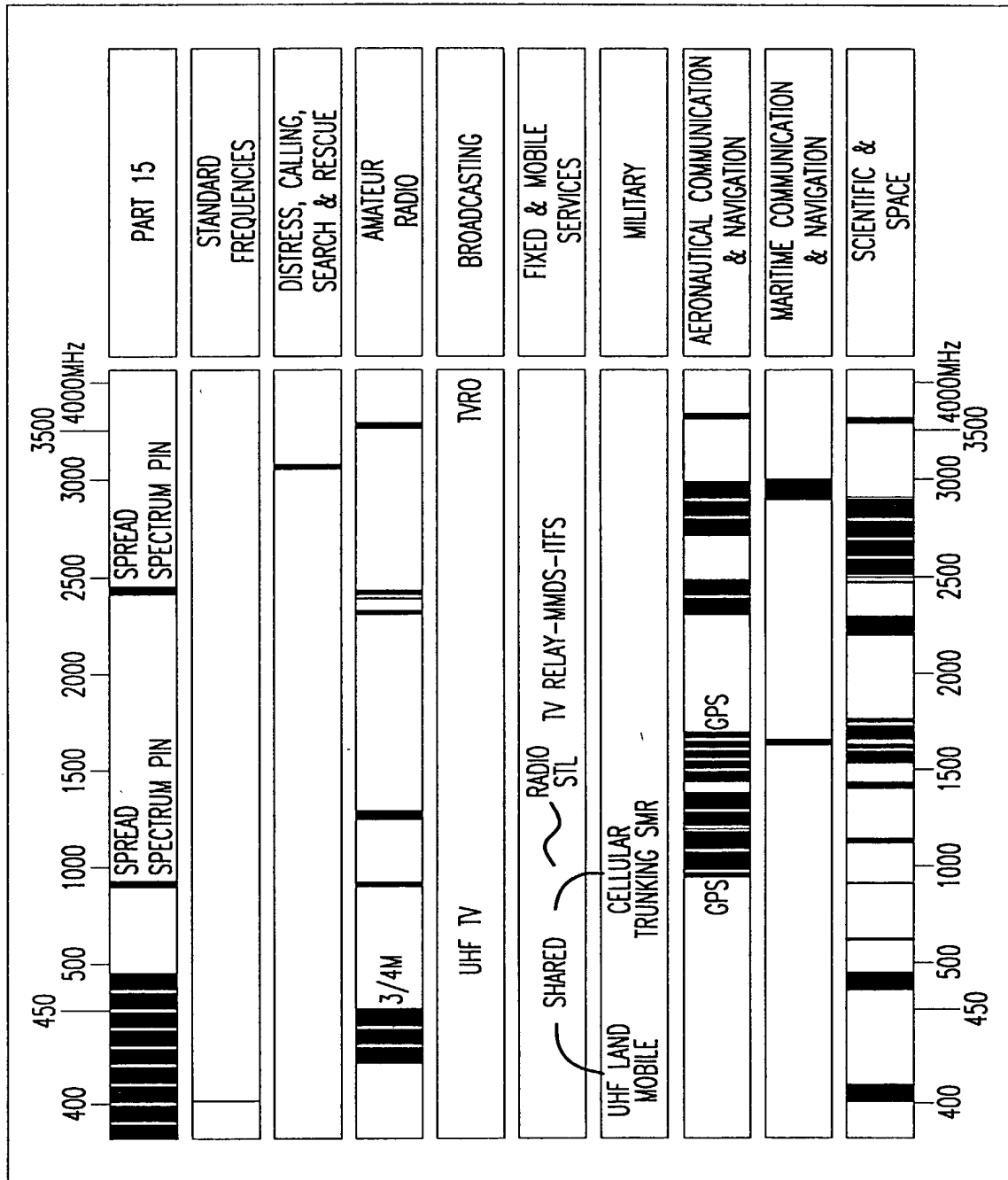


FIG. 42C

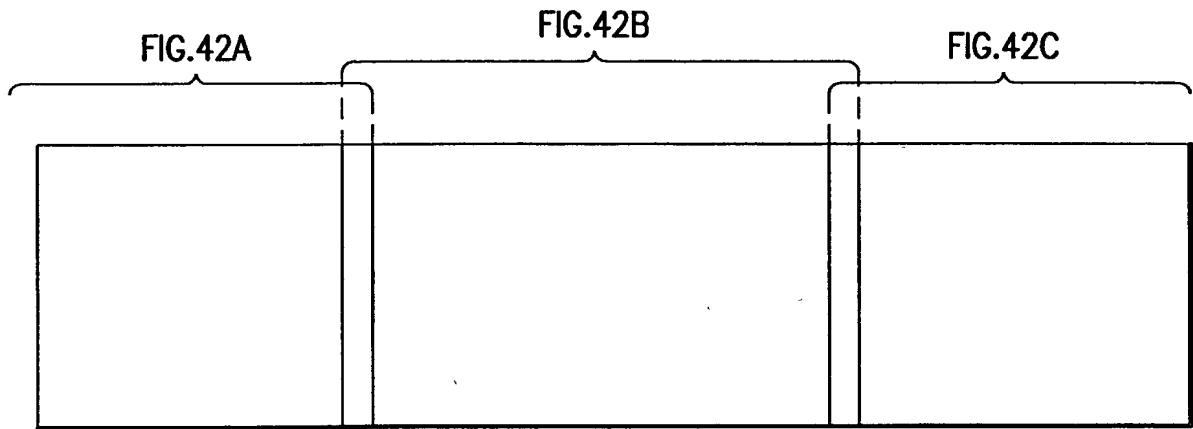


FIG. 42D



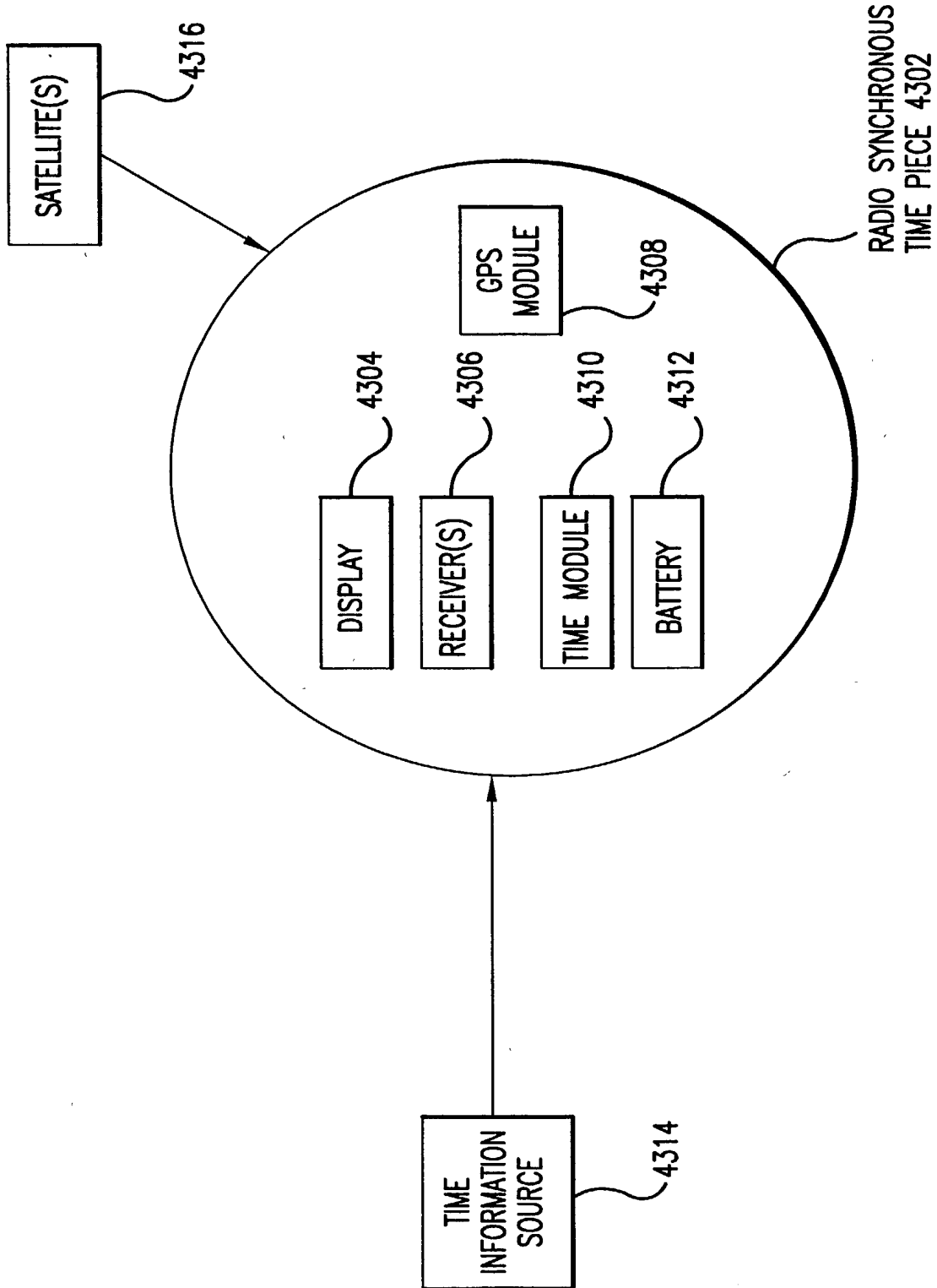


FIG. 43

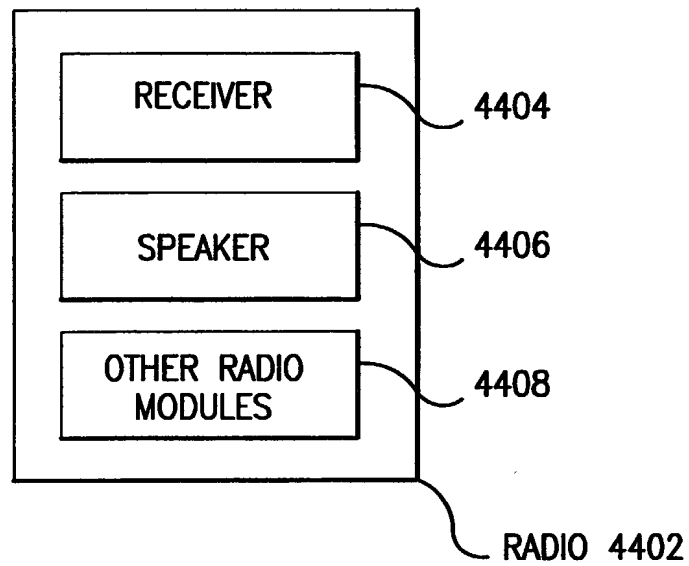


FIG. 44